



August 26, 2025

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

**Re: Deferral Request
James Ranch Unit DI 11 Battery
Incident Number nAPP2502933606
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Deferral Request* to document delineation, excavation, and soil sampling activities at the James Ranch Unit DI 11 Battery (Site). The purpose of the delineation and soil sampling activities was to assess for the presence or absence of impacts to soil following a crude oil and produced water release. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing delineation and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2502933606 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Units I and J, in Section 17, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.39061°, -103.89866°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO) on lease number E062920008.

On January 28, 2025, corrosion of a pipeline resulted in the release of 1,371 barrels (bbls) of produced water and 59 bbls of crude oil into an open excavated trench on the facility pad. An estimated 189 thousand cubic feet (mcf) of natural gas was vented during the release. A vacuum truck was dispatched to the Site and recovered approximately 1,430 bbls of release fluids. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on January 29, 2025, and the release was assigned Incident Number nAPP2502933606.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on nearby groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 322252103541401, located approximately 0.7 miles south of the Site. The groundwater well has a reported depth to groundwater of

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72 feet bgs and a total depth of 129 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 1,213 feet east 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 underlain by unstable geology (high 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
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Details summarizing the NMSLO Cultural Resources and biological review were provided on a *Remediation Work Plan (Work Plan)*, submitted to NMSLO on May 9, 2025. The *Work Plan* was approved by NMSLO on the same day the report was submitted with the following conditions:

1. This facility is in proximity to BLM mapped Sheer's beehive cactus habitat. If earth disturbance extends off pad, a biological survey is required.
2. All sidewalls and bases where equipment is being left in place must have confirmation soil samples collected.
3. Where hydrocarbons are going to have to remain in-situ due to equipment, NMSLO would like to see an application of a microbial agent before backfill.

The Site was not surveyed for Sheer's beehive cactus habitat because all surface disturbance remained on the facility pad. Since the work was not conducted within off-pad pasture soils, the Site is exempt from the Cultural Properties Protection (CPP) Rule. The NMSLO *Work Plan* and the conditions of approval email are provided in Appendix B.

DELINEATION SOIL SAMPLING ACTIVITIES

Following the recovery of released fluids, pipelines located inside the open trench were removed before delineation activities could begin. The removal of the pipelines required safety controls that included installation of trench boxes to prevent the excavation sidewalls from caving in on personnel conducting work inside the trench and a confined space entry permit with an on-site rescue team. The depth of the trench ranged from approximately 8 feet to 10 feet bgs.

Between March 13 and June 25, 2025, Ensolum personnel oversaw delineation activities to evaluate the release extent and to establish full delineation of potential impacts. Twelve potholes (PH01 through PH12) were advanced within and around the release area to assess the vertical and lateral extent of the release. Potholes PH01 through PH03 were advanced within the release area to define the vertical definition of the release and PH04 through PH12 were advanced outside of the release area to determine lateral definition of the release.

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The east side of the southernmost sidewall caved in (Photograph 4); therefore, following removal of pipelines and advancement of PH03 the south end of the trench was backfilled to eliminate the risk of compromising structural integrity of adjacent active production equipment. The trench box could not be utilized for delineation or remediation due to lack of workable footprint at the ground surface for heavy equipment and extended depth needed. Photos of the pipeline removal activities were collected and are provided in a Photographic Log in Appendix C.

A trackhoe was initially utilized to conduct delineation activities, but refusal by a competent gypsum formation was encountered at 18 feet bgs in PH01 and 17 feet bgs in PH02. Due to the trackhoe refusal, sonic drilling methods were utilized to advance PH01 and PH02 deeper and achieve full vertical delineation of the release. In order to prepare for delineation activities with a drilling rig, the entirety of the trench was backfilled following delineation with the trackhoe. Backfilling occurred prior to NMSLO's *Work Plan* response; therefore, application of a microbial agent was not applied. Soil was field screened within each pothole/borehole every 1 to 4 feet bgs for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Discrete delineation soil samples were collected every 1 to 4 feet bgs in PH01 and PH02 based on the field screening results. Discrete delineation soil samples were collected in the lateral potholes/boreholes (PH04 through PH12) based on depth of observed impacts in the nearest affected sampling location (PH01 through PH03). The release extent/trench area and pothole/drilling locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations from all potholes were logged on lithologic/soil sampling logs, which are included in Appendix D.

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

Lithology encountered during the pothole activities generally consisted of the following:

- Light brown caliche fill material from ground surface to 1-foot bgs;
- Pale green friable siltstone with gypsum inclusions ranging from 1-foot to 10 feet bgs;
- Reddish-brown high plasticity claystone with trace thin sand lenses ranging from 4 feet to 20 feet bgs; and
- White to light grey well consolidated gypsum from 8 feet bgs to terminal depth.

Throughout all delineation activities, Ensolum did not observe any voids and/or fractures that would indicate karst/unstable geology was present from the ground surface to 29 feet bgs.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Between March 24 and March 26, 2025, Ensolum personnel oversaw excavation activities to remove impacted soil to the maximum extent practicable (MEP). Excavation activities were performed using a trackhoe and transport vehicles. The excavation occurred on the well pad and around active production equipment and pipelines. To direct excavation activities, Ensolum personnel screened soil using the same methods described above. The previously trenched area that remained open was extended vertically and laterally, with consideration of the multiple health and safety hazards associated with removing impacted soil in the vicinity of production equipment and flowlines. These hazards included

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but were not limited to; vertical to near vertical sidewalls along the east, south, and northeast areas of the trench with depths ranging from 8 feet to 10 feet bgs, active buried pipelines, immediately adjacent production equipment, production equipment footings and supports, and active surface pipelines (Photographs 3 and 4). These structures and conditions limited the available footprint for working with heavy machinery safely.

Following removal of impacted soil to the MEP, 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 resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the gradient slope applied to the western edge of the excavation as a safety precaution, an excavation floor area was mapped to determine the proper number of floor samples needed to collect on the floor of the excavation. Excavation soil samples FS01 through FS09 were collected from the floor of the excavation from a depth of 8 feet bgs. The area encompassing the sidewall slope was included in the confirmation sidewall samples. Excavation sidewall soil samples SW03 through SW11 were collected from the sidewalls of the excavation at depths ranging from ground surface to 8 feet bgs. In the southern area that had been previously backfilled, sidewall samples SW01, SW02, SW12, and SW13 extended to 10 feet bgs. The final excavation extent and soil sample locations are presented on Figure 3. Photographic documentation of the excavation activities is presented in Appendix C. All confirmation soil samples were field screened, handled, and submitted for the same COCs as described above and submitted to Cardinal.

In order to remove shallow soil impacts identified in PH11 and PH11A, the excavation was extended to the north, but only to a depth of 2.5 feet bgs. One confirmation floor soil sample (FS10) and one sidewall soil sample (SW14) were collected from that area. It is likely the impacted soil addressed in this area was unrelated to the release based on depth and extent of impacted soil.

The final excavation extent measured approximately 4,800 square feet. A total of approximately 654 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Halfway Disposal and Landfill in Hobbs, New Mexico. Disposal manifests can be provided upon request.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples collected in lateral delineation potholes PH04, PH05, PH06, PH07, PH09, and PH10 were in compliance with Closure Criteria. Vertical delineation soil samples advanced beneath the trench indicated TPH concentrations exceeded Closure Criteria between 10 feet and 14 feet bgs in PH01, PH02, and PH03. Similarly, chloride concentrations exceeded 600 mg/kg in those potholes/boreholes at depths between 10 feet and 25 feet bgs. Elevated chloride concentrations were also detected between 17 feet and 19 feet bgs north of the trench at PH08. A step-out delineation point at PH11 did not identify elevated chloride concentrations at depth, but shallow soil at the ground surface to 2.5 feet bgs contained chloride concentrations exceeding 600 mg/kg. Subsurface impacts were delineated vertically with samples from the terminal depth of all potholes in compliance with Closure Criteria. All delineation soil samples containing impacted soil were laterally defined in all four cardinal directions, with the exception of the northwest corner of the work area, where several surface pipelines, buried pipelines, separators, and a light pole obstructed access.

Within the excavation, laboratory analytical results for confirmation floor soil samples FS01 through FS09, and confirmation sidewall soil samples SW01, SW02, and SW08 through SW11 indicated TPH and/or chloride concentrations exceeded Closure Criteria. Soil represented by samples SW01 and SW02 was ultimately removed, but only backfill, which would not have been representative of true

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conditions, remained to sample. All other confirmation soil samples collected indicated COC concentrations were in compliance with Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix E.

ENGINEERING REVIEW

To understand if additional excavation could be conducted near active production equipment, the Site was assessed by a person trained in Occupational Safety and Health Administration (OSHA) trenching and excavation safety (Competent Person) under the consultation of a Registered Professional Engineer (RPE) licensed in the State of New Mexico. Soil type B was observed in a 138-foot by 66-foot section of the excavation directly adjacent to and beneath active production equipment and pipelines, including engineered skid structures and separators.

Based on the Site conditions and according to OSHA Excavation standards, the RPE recommendation indicates excavation should not be completed within 3.5 feet of 8-inch pipelines, 5 feet from 12-inch pipelines, directly beneath any sized pipeline, 29 feet from any skid, and 2 feet from any 4-inch circular support. The findings indicated the excavation extent had already encroached on those minimum distances. The engineering evaluation concluded that the excavation should not be extended closer to the equipment or deepened without further compromising the safety of all onsite personnel and the structural integrity of the active production equipment. A detailed description of the methods used and recommendations generated is included in the *Excavation Guidance Document* in Appendix F.

KARST SURVEY RESULTS

Southwest Geophysical Consulting (Southwest Geophysical), a BLM-approved third-party cave/karst contractor, conducted a desktop survey, aerial survey, and geophysical survey of the Site. In summary, no surface karst features within the 200-foot survey area surrounding the release extent were identified in the desktop or surface karst surveys. Results of the geophysical study indicated a well-layered geologic system is present beneath the Site; however, two subsurface anomalies were identified, suggesting the potential presence of air-filled subsurface voids that could be subject to collapse. The surface survey recognized one surface karst feature as a small cover collapse sinkhole located approximately 650 feet north of the release. The detailed report provided by Southwest Geophysical is included in Appendix G.

DISCUSSION AND DEFERRAL REQUEST

Excavation of impacted soil was conducted at the Site to the MEP for the January 2025 crude oil and produced water release. The impacted soil contains TPH and chloride concentrations that exceed the strictest Closure Criteria applied due to high karst potential. Vertical delineation of residual impacted soil was defined by delineation soil samples PH01E at 29 feet bgs, PH02C at 18 feet bgs, PH03C at 16 feet bgs, and PH08L at 25 feet bgs. Lateral delineation of the residual impacted soil was defined in all directions by delineation soil samples collected in potholes PH04 through PH07, PH09, PH10, and PH12. Residual TPH concentrations generally range from 174 mg/kg to 1,837 mg/kg with one exception at PH01A, which contains 4,245 mg/kg at 13 feet bgs. Chloride concentrations range from 752 mg/kg to 9,600 mg/kg. Except for the one TPH result at 13 feet bgs (PH01A), all of these concentrations would be acceptable in low-potential karst settings where depth to water is greater than 50 feet deep.

Based on lithologic observations from the potholes and soil borings, as well as interpretations of the geophysical data, the geology at the Site consists of a caliche well pad constructed over horizontally layered siltstone, sandstone, and claystone. These sedimentary deposits are underlain by a micro-crystalline gypsum, which occurs at approximately 18 feet bgs. The residual impacts are present within

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the sandstone and claystone, and, near the source at PH01, extend into the gypsum to 25 feet bgs. These layers are visible in the geophysical data as moderate to low resistivity values and interpreted to be dry gypsite soils. Beneath these layers, the geophysical model identifies a low resistivity layer beginning near 20 feet to 25 feet bgs that is likely a clay or wet layers within the Rustler Formation. Based on nearby water well data, saturated lithology occurs much deeper (near 70 feet bgs), therefore, the layer visible in the geophysical data at this Site is likely clay. It is beneath this clay that the potential voids occur.

XTO has removed soil to the MEP, with further progress restricted by challenging soil conditions that are prone to collapse and nearby active production equipment. The recommendations in the *Excavation Guidance Document* restrict further ground disturbance near production equipment, and XTO believes it is unsafe to continue excavation without major facility reconstruction. As such, XTO is requesting deferral of final remediation of remaining soil impacts until future major construction. An estimated area of impacted soil left in place immediately adjacent to or below active production equipment measures approximately 3,700 square feet with a conservative estimate of 1,300 cubic yards of impacted soil remaining (Figure 4).

Although the area is classified as high karst potential and the karst survey identified potential dissolution features, the lithologic and geophysical data do not indicate residual contaminants in the soil have an immediate direct pathway to groundwater. The deepest impacted soil is separated from the potential dissolution features by dense, micro-crystalline gypsum and a clay layer. These lithologies limit migration of contaminants downward. No dissolution features were identified in the soil borings, indicating the impacted soil does not occur in fractures or voids. The risk at this location is that impacted soil layers will spill into an underlying void, and that void will, through additional dissolution, allow migration of the disrupted contaminated soil to groundwater. Such a situation is unlikely within a deferral timeframe because of the clay material separating the contaminants from the voids and the depth to groundwater, which is greater than 70 feet in a nearby water well and not detected on the geophysical data to 140 feet bgs. It is the underlying clay resting atop the potential voids that will be prone to spilling material into the void. While spilling of the clay material can cause additional slumping of the overlying material, the upper materials would generally be restricted from passing into the void by the volume of clay material that has already entered the void. Should that situation occur, the voids identified in the geophysical data are not saturated and there are no springs nearby, which would be indicative of the presence of groundwater in shallow karst features.

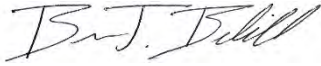
Soil containing the highest concentrations of TPH and chloride has been removed. Residual concentrations of TPH and chloride are protective of groundwater that is greater than 50 feet deep, except at one location at 13 feet bgs, greater than 20 feet above the nearest identified potential void. This and the remaining contaminants occur in lithologies that are underlain by microcrystalline gypsum and a low-resistivity (i.e. low-porosity) clay that will restrict future migration. Although potential dissolution features were identified in this high-karst area, they are present in a deeper geologic unit with no apparent direct connection to groundwater at this time.

Considering the findings in the *Excavation Guidance Document*, collapse of sidewalls that has already occurred, and the Site-specific geologic investigations that show conditions that will limit migration of residual contaminants directly to groundwater in this high-karst potential area, XTO requests deferral of final remediation for Incident Number nAPP2502933606 until final reclamation of the well pad or major construction, whichever comes first.

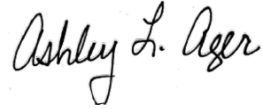
If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

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Sincerely,
Ensolum, LLC



Benjamin J. Belill
Senior Geologist



Ashley L. Ager, M.S., P.G.
Senior Geologist

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
NMSLO





Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Figure 4	Proposed Deferral Area
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	NMSLO Correspondence
Appendix C	Photographic Log
Appendix D	Lithologic Soil Sampling Logs
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	<i>Excavation Guidance Document</i>
Appendix G	April 4, 2025, <i>Environmental Karst Study Report</i>







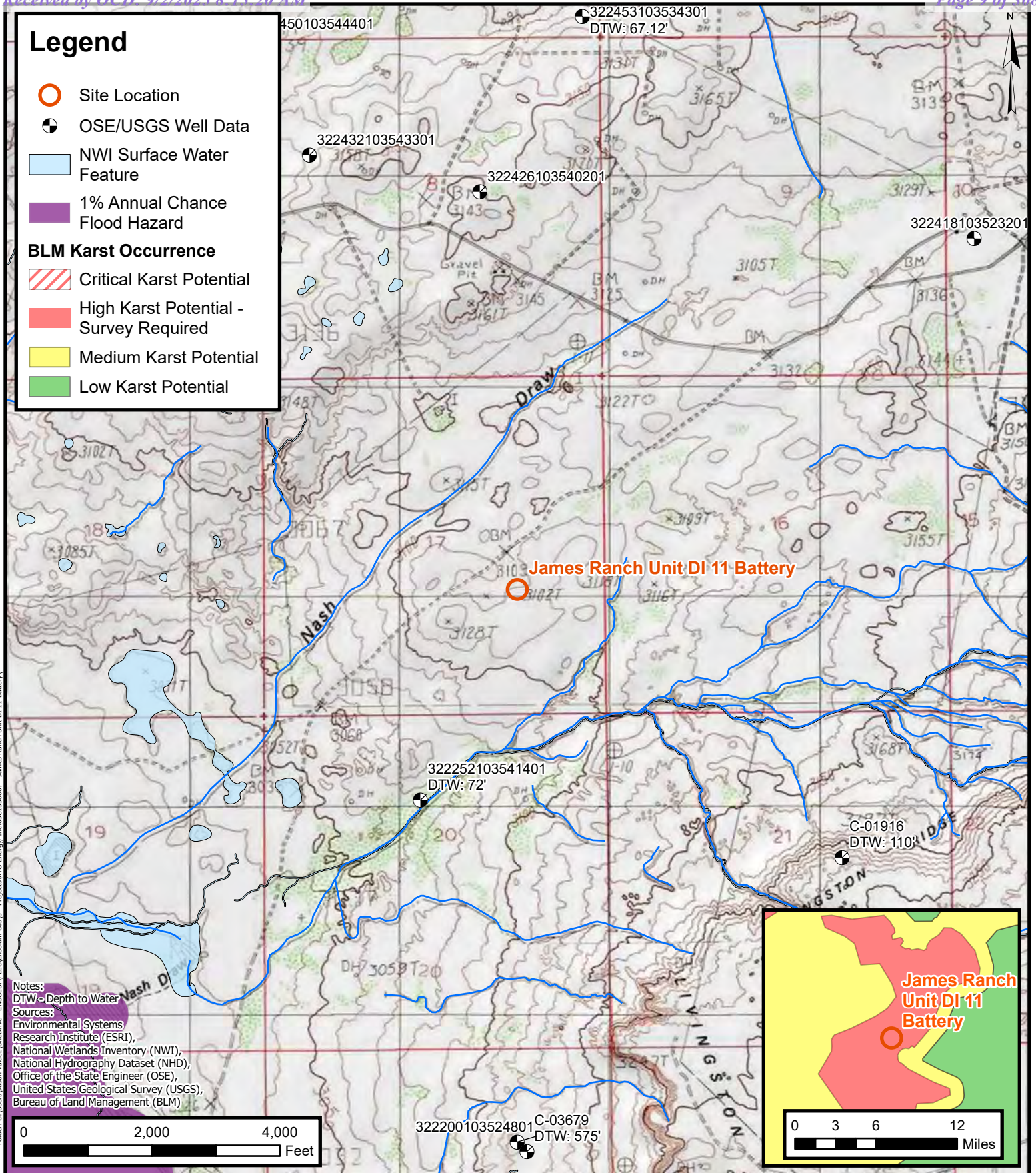
FIGURES

Legend

-  Site Location
-  OSE/USGS Well Data
-  NWI Surface Water Feature
-  1% Annual Chance Flood Hazard

BLM Karst Occurrence

-  Critical Karst Potential
-  High Karst Potential - Survey Required
-  Medium Karst Potential
-  Low Karst Potential



Site Receptor Map

XTO Energy, Inc
James Ranch Unit DI 11 Battery
Incident Number: nAPP2502933606
Unit I & J, Sec 17, T22S, R30E
Eddy County, New Mexico

FIGURE

1



Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Surface Line
- Water Utility Line
- Release Extent
- Infrastructure

PH12@0.5'
PH12A@2'
PH12B@4'
PH12C@6'
PH12D@8'
PH12E@10'
PH12F@13'
PH12G@14'
PH12H@16'
PH12I@17'
PH12J@18'
PH12K@19'

PH11@0.5'
PH11A@2'
PH11B@4'
PH11C@6'
PH11D@8'
PH11E@10'
PH11F@13'
PH11G@14'
PH11H@16'
PH11I@17'
PH11J@18'
PH11K@19'

PH07@1'
PH07A@2'
PH07B@4'
PH07C@6'
PH07D@8'
PH07E@10'
PH07F@13'
PH07G@14'
PH07H@17'
PH07I@18'
PH07J@19'
PH07K@25'
PH07L@29'

PH08@0.5'
PH08A@2'
PH08B@4'
PH08C@6'
PH08D@8'
PH08E@10'
PH08F@13'
PH08G@14'
PH08H@16'
PH08I@17'
PH08J@18'
PH08K@19'
PH08L@25'
PH08M@29'

PH09@0.5'
PH09A@2'
PH09B@4'
PH09C@6'
PH09D@8'
PH09E@10'
PH09F@13'
PH09G@14'
PH09H@17'
PH09I@18'
PH09J@19'
PH09K@25'
PH09L@29'

PH01@10'
PH01A@13'
PH01B@18'
PH01C@19'
PH01D@25'
PH01E@29'

PH02@10'
PH02A@14'
PH02B@17'
PH02C@18'
PH02D@20'

PH04@0.5'
PH04A@2'
PH04B@4'
PH04C@6'
PH04D@8'
PH04E@10'
PH04F@14'
PH04G@15'
PH04H@16'
PH04I@17'
PH04J@20'

PH10@0.5'
PH10A@2'
PH10B@4'
PH10C@6'
PH10D@8'
PH10E@10'
PH10F@14'
PH10G@15'
PH10H@16'
PH10I@17'
PH10J@20'

PH05@1'
PH05A@2'
PH05B@4'
PH05C@6'
PH05D@8'
PH05E@10'
PH05F@14'
PH05G@15'
PH05H@16'
PH05I@17'
PH05J@20'

PH03@10'
PH03A@14'
PH03B@15'
PH03C@16'
PH03D@17'

PH06@0.5'
PH06A@2'
PH06B@4'
PH06C@6'
PH06D@8'
PH06E@10'
PH06F@14'
PH06G@15'
PH06H@16'
PH06I@17'
PH06J@20'

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

0 5 10 20 30 40 Feet

Sources: Environmental Systems Research Institute (ESRI)

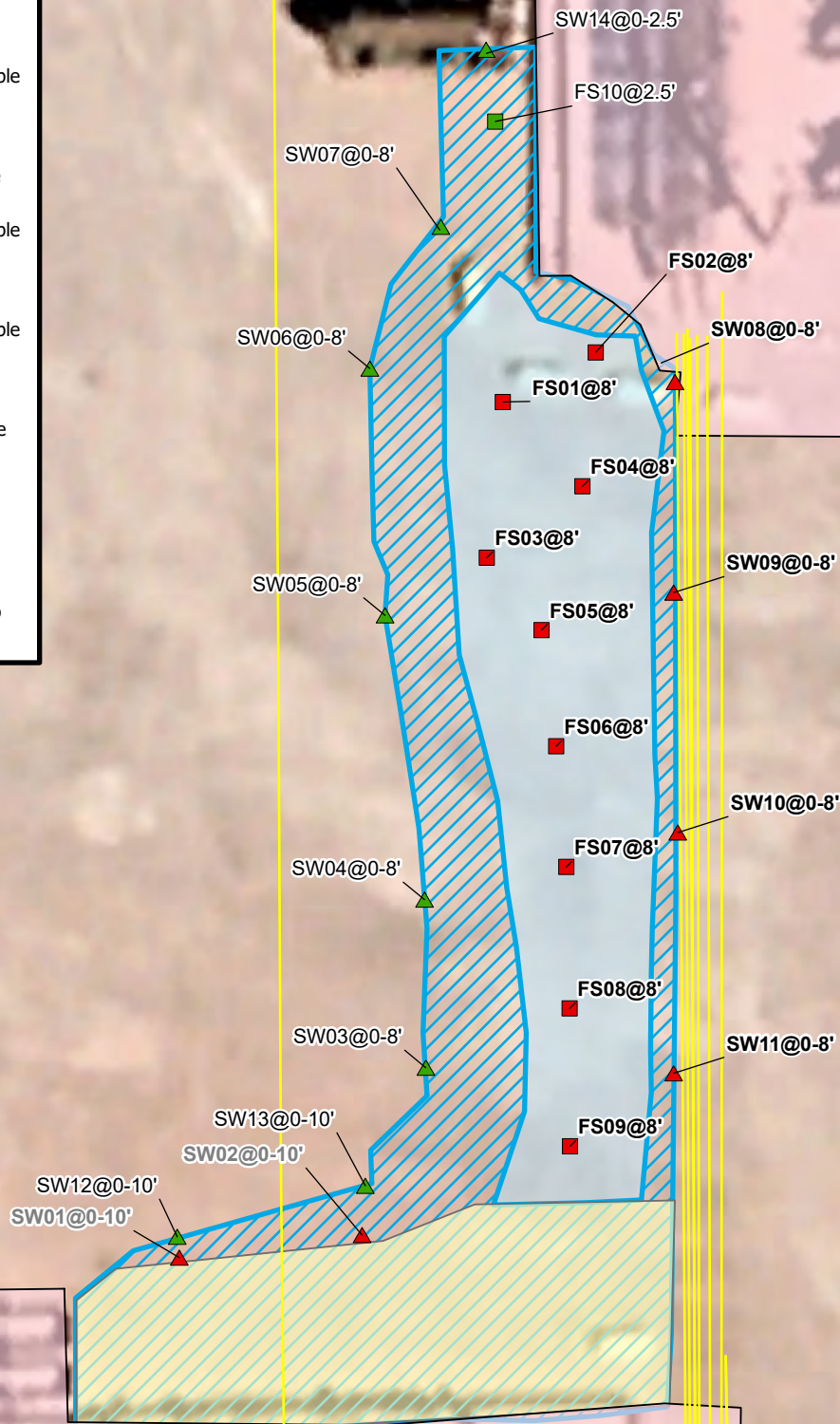
Delineation Soil Sample Locations

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Unit I & J, Sec 17, T22S, R30E
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FIGURE**2**

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- ▲ Excavation Floor Sample with Concentrations Exceeding Closure Criteria
- Oil and Gas Utility Line
- Surface Line
- ▨ Excavation Extent
- ▨ Excavation Extent – Floor (Deep)
- ▨ Infrastructure
- ▨ Area Backfilled Due to Safety Concerns



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

0 5 10 20 30 40 Feet

Sources: Environmental Systems Research Institute (ESRI)

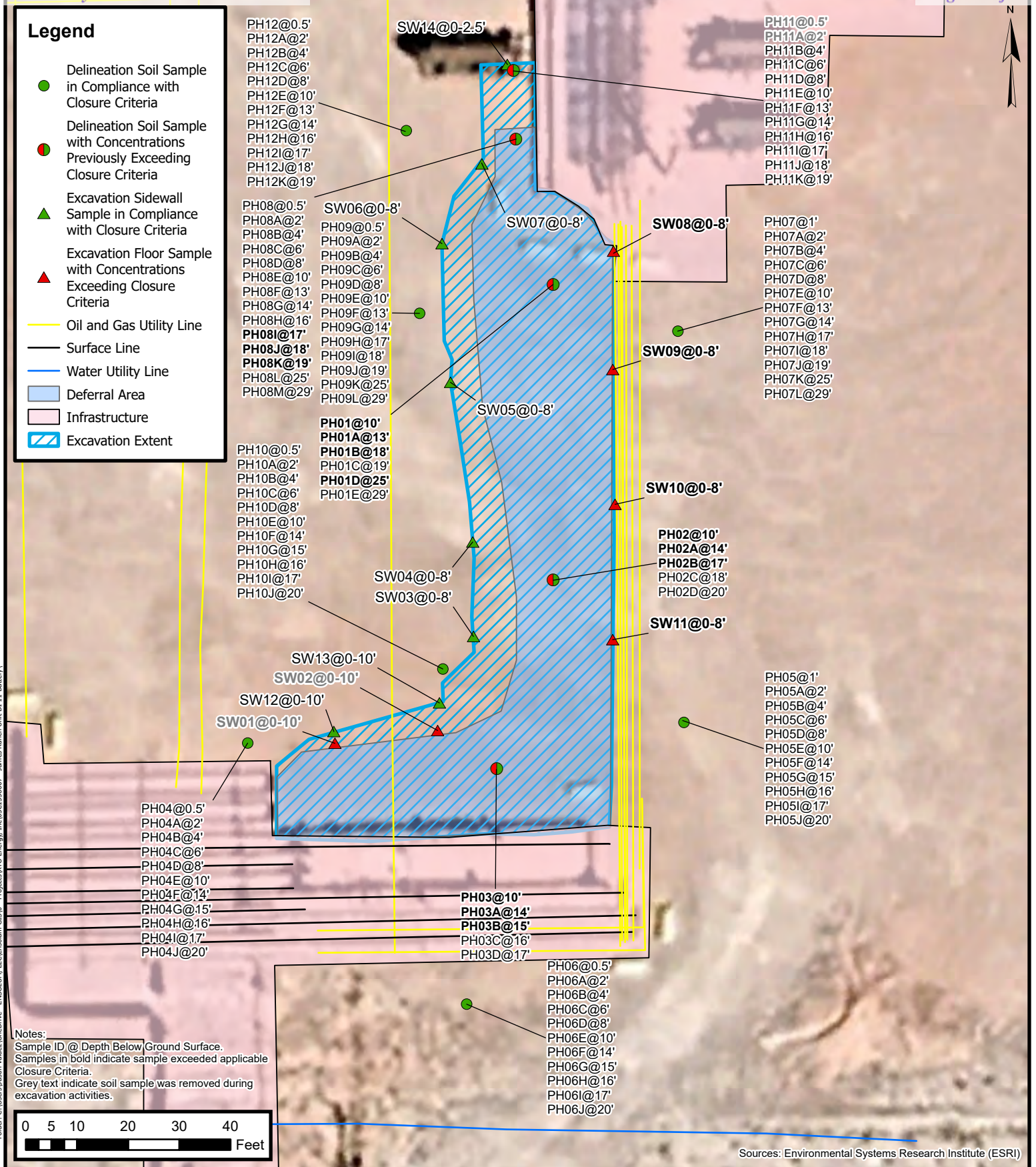
Confirmation Soil Sample Locations

XTO Energy, Inc
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 Unit I & J, Sec 17, T22S, R30E
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FIGURE

3





Proposed Deferral Area

XTO Energy, Inc
James Ranch Unit DI 11 Battery
Incident Number: nAPP2502933606
Unit I & J, Sec 17, T22S, R30E
Eddy County, New Mexico

FIGURE

4



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
James Ranch Unit DI 11
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
PH01	03/13/2025	10	<0.050	<0.300	<10.0	256	37.4	256	293	2,200
PH01A	03/13/2025	13	<0.050	2.97	164	3,470	611	3,634	4,245	4,480
PH01B	03/13/2025	18	<0.050	<0.300	<10.0	47.0	<10.0	47.0	47.0	3,760
PH01C	05/05/2025	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH01D	05/05/2025	25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,400
PH01E	05/05/2025	29	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
PH02	03/13/2025	10	<0.050	<0.300	<10.0	67.2	10.4	67.2	77.6	5,600
PH02A	03/13/2025	14	<0.050	0.428	<10.0	216	52.7	216	269	7,680
PH02B	03/13/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,840
PH02C	05/05/2025	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH02D	05/05/2025	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH03	03/13/2025	10	<0.050	2.76	<10.0	105	16.5	105	122	2,130
PH03A	03/13/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,760
PH03B	03/13/2025	15	<0.050	<0.300	<10.0	31.2	<10.0	31.2	31.2	4,240
PH03C	03/21/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH03D	03/21/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH04	05/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
PH04A	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
PH04B	05/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH04C	05/06/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH04D	05/06/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH04E	05/06/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH04F	05/07/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH04G	05/07/2025	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH04H	05/07/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH04I	05/07/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH04J	05/07/2025	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05	03/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05A	03/21/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05B	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH05C	05/05/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05D	05/05/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05E	05/05/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05F	05/05/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
James Ranch Unit DI 11
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
PH05G	05/05/2025	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05H	05/07/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH05I	05/05/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05J	05/05/2025	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH06	05/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH06A	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH06B	05/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH06C	05/06/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH06D	05/06/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH06E	05/06/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH06F	05/06/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH06G	05/06/2025	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH06H	05/07/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH06I	05/06/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH06J	05/06/2025	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH07	03/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH07A	03/21/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH07B	03/21/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH07C	05/06/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH07D	05/06/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH07E	05/06/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH07F	05/06/2025	13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH07G	05/06/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH07H	05/06/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH07I	05/06/2025	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH07J	05/06/2025	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH07K	05/06/2025	25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH07L	05/06/2025	29	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH08	05/07/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH08A	05/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH08B	05/07/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
PH08C	05/07/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH08D	05/07/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH08E	05/07/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
PH08F	05/07/2025	13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
James Ranch Unit DI 11
XTO Energy, Inc
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
PH08G	05/07/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH08H	05/07/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
PH08I	05/07/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784
PH08J	05/07/2025	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
PH08K	05/07/2025	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
PH08L	05/07/2025	25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH08M	05/07/2025	29	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH09	05/07/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH09A	05/07/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
PH09B	05/07/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
PH09C	05/07/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH09D	05/07/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH09E	05/07/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH09F	05/07/2025	13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH09G	05/07/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH09H	05/07/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH09I	05/07/2025	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH09J	05/07/2025	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH09K	05/07/2025	25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH09L	05/07/2025	29	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH10	05/06/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH10A	05/06/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
PH10B	05/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
PH10C	05/06/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
PH10D	05/06/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
PH10E	05/06/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
PH10F	05/06/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH10G	05/07/2025	15	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH10H	05/06/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH10I	05/07/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH10J	05/06/2025	20	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH11	05/08/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,600
PH11A	05/08/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
PH11B	05/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH11C	05/08/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144

TABLE 1
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XTO Energy, Inc
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Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCDC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
PH11D	05/08/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH11E	05/08/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
PH11F	05/08/2025	13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
PH11G	05/08/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
PH11H	05/08/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH11I	05/08/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
PH11J	05/08/2025	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH11K	05/08/2025	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH12	06/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	360
PH12A	06/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
PH12B	06/25/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH12C	06/25/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH12D	06/25/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH12E	06/25/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH12F	06/25/2025	13	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH12G	06/25/2025	14	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH12H	06/25/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH12I	06/25/2025	17	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH12J	06/25/2025	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH12K	06/25/2025	19	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Confirmation Soil Samples										
FS01	03/26/2025	8	<0.050	<0.300	<10.0	151	22.6	151	174	4,700
FS02	03/26/2025	8	<0.050	<0.300	<10.0	412	66.0	412	478	6,240
FS03	03/26/2025	8	<0.050	<0.300	<10.0	80.3	<10.0	80.3	80.3	1,870
FS04	03/26/2025	8	<0.050	<0.300	<10.0	196	32.9	196	229	7,730
FS05	03/26/2025	8	<0.050	<0.300	<10.0	209	30.5	209	240	7,060
FS06	03/26/2025	8	<0.050	<0.300	<10.0	319	51.0	319	370	9,060
FS07	03/26/2025	8	<0.050	<0.300	<10.0	335	73.2	335	408	8,000
FS08	03/26/2025	8	<0.050	<0.300	<10.0	43.0	<10.0	43.0	43.0	5,460
FS09	03/26/2025	8	<0.050	<0.300	<10.0	234	39.9	234	274	9,600
FS10	06/25/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW01	03/13/2025	0 - 10	<0.050	<0.300	<10.0	13.5	<10.0	13.5	13.5	5,120
SW02	03/13/2025	0 - 10	<0.050	<0.300	<10.0	19.2	<10.0	19.2	19.2	4,240
SW03	03/26/2025	0 - 8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW04	03/26/2025	0 - 8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320



TABLE 1
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 XTO Energy, Inc
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW05	03/26/2025	0 - 8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW06	03/25/2025	0 - 8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW07	03/25/2025	0 - 8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW08	03/25/2025	0 - 8	<0.050	<0.300	<10.0	1,520	317	1,520	1,837	36,000
SW09	03/25/2025	0 - 8	<0.050	<0.300	<10.0	54.1	10.4	54.1	64.5	4,400
SW10	03/25/2025	0 - 8	<0.050	<0.300	<10.0	158	25.7	158	184	19,200
SW11	03/25/2025	0 - 8	<0.050	<0.300	<10.0	219	43.0	219	262	20,800
SW12	03/26/2025	0 - 10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW13	03/26/2025	0 - 10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW14	06/25/2025	0 - 2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322252103541401

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322252103541401 22S.30E.20.12310

Eddy County, New Mexico
Latitude 32°22'52", Longitude 103°54'14" NAD27
Land-surface elevation 3,065 feet above NAVD88
The depth of the well is 129 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1952-02-26			D	62610	2981.47	NGVD29	1	Z		
1952-02-26			D	62611	2983.06	NAVD88	1	Z		
1952-02-26			D	72019	81.94		1	Z		
1959-02-19			D	62610	2990.45	NGVD29	1	Z		
1959-02-19			D	62611	2992.04	NAVD88	1	Z		
1959-02-19			D	72019	72.96		1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static

Section	Code	Description
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2025-04-23 10:29:05 EDT
0.3 0.21 nadww02



APPENDIX B

NMSLO Correspondence



April 25, 2025

New Mexico State Land Office
310 Old Santa Fe Trail
Santa Fe, New Mexico 87504-1148

**Re: Remediation Work Plan
James Ranch Unit DI 11 Battery
Incident Number nAPP2502933606
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to propose delineation activities to address impacts to soil identified at the James Ranch Unit DI 11 Battery (Site). The purpose of the delineation activities is to delineate the lateral and vertical extent of impacts to soil resulting from a release of produced water and crude oil at the Site. The following Work Plan proposes full lateral and vertical delineation to be achieved via drilling rig.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Units I and J, in Section 17, Township 22 South, Range 30 East, in Eddy County, New Mexico (32.39061°, -103.89866°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On January 28, 2025, corrosion of a pipeline resulted in the release of 1,371 barrels (bbls) of produced water and 59 bbls of crude oil into an open excavated trench on the facility pad. An estimated 189 thousand cubic feet (mcf) of natural gas was vented during the release. A vacuum truck was dispatched to the Site and recovered approximately 1,430 bbls of release fluids. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on January 29, 2025, and the release was assigned Incident Number nAPP2502933606.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on nearby groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 322252103541401, located approximately 0.68 miles south of the Site. The groundwater well has a reported depth to groundwater of 72 feet bgs and a total depth of 129 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the well record is included in Appendix A.

XTO Energy, Inc.
Remediation Work Plan
James Ranch Unit DI 11 Battery

The closest continuously flowing or significant watercourse to the Site is a dry wash located approximately 1,213 feet east 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 underlain by unstable geology (high 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
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

Since the release remained on the facility pad, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such, no additional cultural resource surveys were completed in connection with this release.

Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and/or sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site. A review of the Bureau of Land Management (BLM) New Mexico Plant Wildlife Habitat maps indicated there are no endangered or threatened potential plant or wildlife habitats near the Site. Furthermore, no native vegetation outside of the well pad extent will be disturbed during remediation activities since the entirety of the release and planned remediation activities are to occur on the well pad.
- The Site is located within an area of possible range of the Lesser Prairie Chicken habitat based on a review of NMSLO Candidate Conservation Agreement with Assurances (CCAA) map.
 - From March 1st through June 15th, no remediation activities will occur between the hours of 3:00 am to 9:00 am Mountain Standard Time (MST) to protect any Lesser Prairie Chickens within the work area.
- The Site is underlain by unstable geology (high potential karst designation area) and depth to groundwater is estimated to be between 51 feet and 100 feet bgs, as determined by the Site Characterization.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Reeves-Gypsum land complex, which includes a sandy loam to clay loam with gypsiferous material at depths greater than 32 inches bgs. The Reeves-Gypsum land complex is considered a sensitive soil per the NMSLO guidelines for gypsiferous material; however, the

XTO Energy, Inc.
Remediation Work Plan
James Ranch Unit DI 11 Battery

release occurred on the caliche surface of the well pad, limiting contact with potentially sensitive native soil outside the pad boundary.

PROPOSED REMEDIATION WORK PLAN

Following the recovery of the released fluids, pipelines located inside the open trench were removed before delineation activities could begin. The removal of the pipelines involved safety parameters that included; trench boxes to prevent the excavation sidewalls from caving in on personnel conducting work inside the trench and, a confined space entry permit with a rescue team. The depth of the trench ranges from approximately 8 feet to 10 feet bgs. Once all pipelines were safely removed, the south end of the trench was immediately backfilled to prevent active production equipment from falling inside the trench area. Photos of the Site activities were collected and are provided in a Photographic Log in Appendix B.

Delineation activities were attempted inside the trench of where the release occurred utilizing a track hoe. However, refusal was encountered at approximately 17 feet bgs when the track hoe encountered a competent gypsum/anhydrite formation. Based on the track hoe refusal and delineation of soil impacts yet to be determined, XTO proposes to complete full lateral and vertical delineation of impacts to soil utilizing a drilling rig and excavation of impacted soil where it is safely possible.

XTO request approval to complete the following remediation activities:

- Advance ten delineation boreholes utilizing a drilling rig to achieve full delineation of impacts to soil. Three soil borings will be advanced within the release area to achieve vertical delineation, and seven soil borings will be advanced outside the release area to achieve lateral delineation. Soil from the soil borings will be field screened at 1-foot intervals for volatile organic compounds (VOCs) utilizing a calibrate photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations will be logged on lithologic/soil sampling logs. At least two delineation samples from each pothole will be submitted for laboratory analysis; the sample with the highest field screening result and the sample from the final pothole depth. Prior to beginning drilling activities, the trench will be backfilled with locally purchased caliche pad material to the surface of the pad so the drilling rig can safely access the work area and drill on stable and level ground. The proposed delineation boreholes are provided on Figure 2;
- Excavation of impacted soil where soil impacts can safely be removed by heavy equipment. Based on the trench depth ranging from 8 feet to 10 feet bgs and near vertical sidewalls throughout the entire trench, in accordance with multiple buried pipelines and active production equipment surrounding the trench and release area, soil impacts will be removed to the maximum extent practicable (MEP). XTO health and safety policy will be enforced and includes the restriction of any soil disturbance within 2 feet of any active pipeline or production equipment. The excavated soil will be transferred a New Mexico approved landfill facility for disposal;
- The confirmation and delineation soil samples will be 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 will be transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500; and,

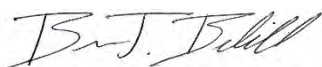
XTO Energy, Inc.
Remediation Work Plan
James Ranch Unit DI 11 Battery

- Upon completion of the excavation and delineation activities and review of the laboratory analytical results, XTO will prepare a follow-up *Remediation Work Plan* proposing additional remediation activities, if warranted, or a *Deferral Request* if impacted soil remains in-place.


XTO will complete the delineation and soil sampling activities within 90 days of the date of approval of this Work Plan. XTO believes the scope of work described above meets the requirements set forth in 19.15.29 NMAC and is protective of human health, the environment, and groundwater. As such, XTO respectfully requests approval of this Work Plan for Incident Number nAPP2502933606.

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

Sincerely,
Ensolum, LLC



Benjamin J Belill
Senior Geologist



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

cc: Colton Brown, XTO
Kaylan Dirkx, XTO
NMSLO





Appendices:

Figure 1	Site Receptor Map
Figure 2	Proposed Delineation Boreholes Map
Appendix A	Referenced Well Records
Appendix B	Photographic Log







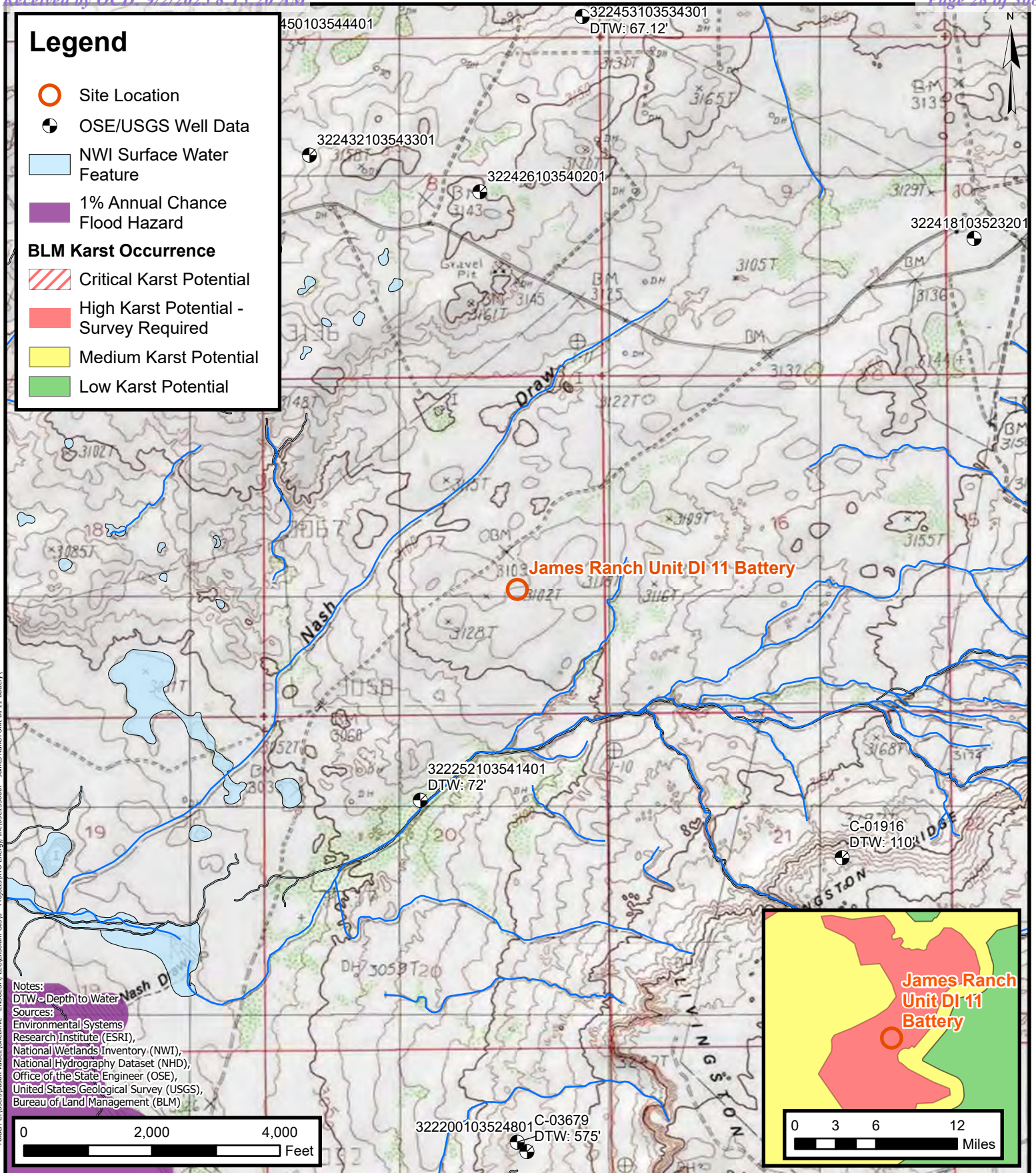
FIGURES

Legend

-  Site Location
-  OSE/USGS Well Data
-  NWI Surface Water Feature
-  1% Annual Chance Flood Hazard

BLM Karst Occurrence

-  Critical Karst Potential
-  High Karst Potential - Survey Required
-  Medium Karst Potential
-  Low Karst Potential

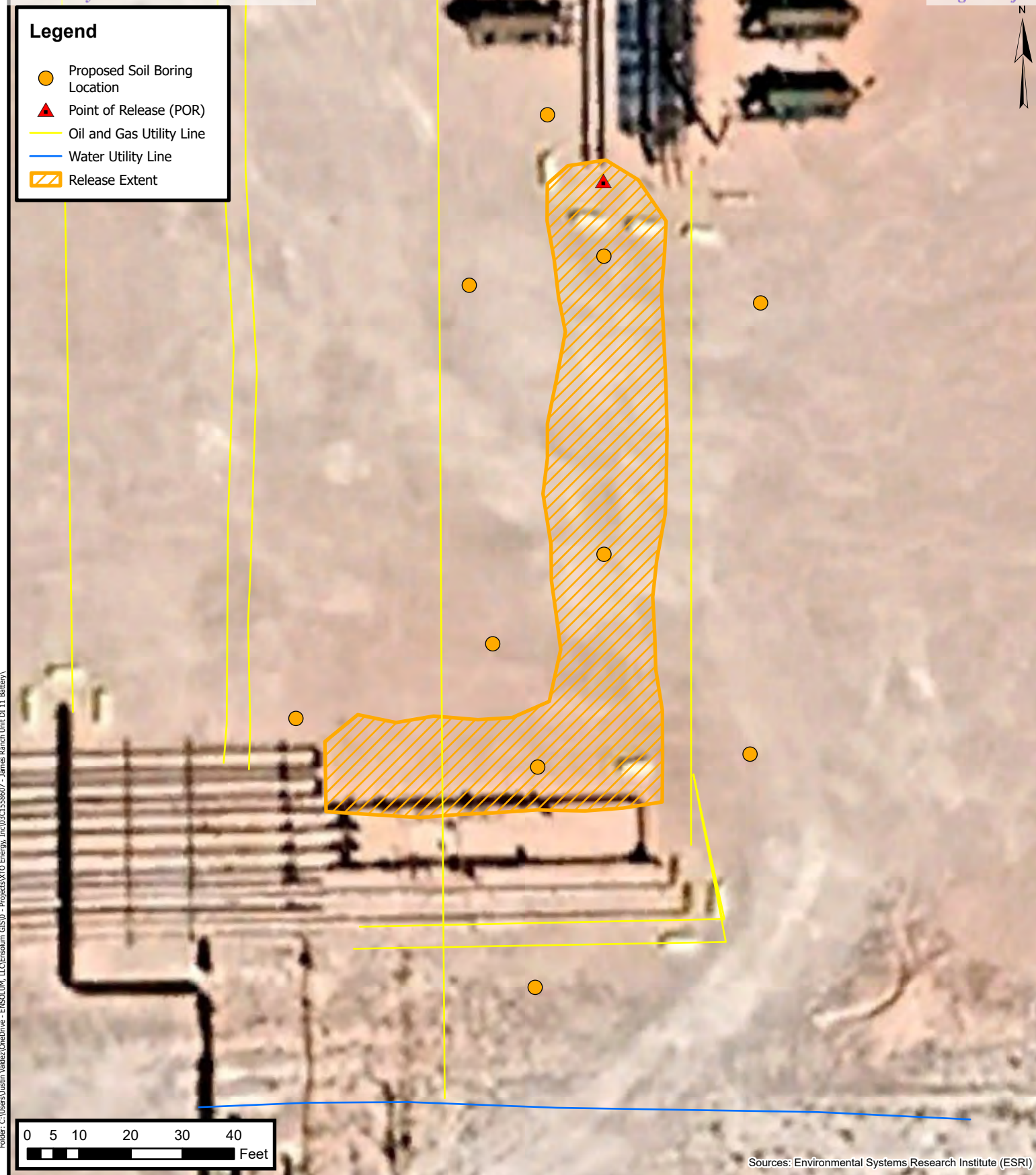


Site Receptor Map

XTO Energy, Inc
James Ranch Unit DI 11 Battery
Incident Number: nAPP2502933606
Unit I & J, Sec 17, T22S, R30E
Eddy County, New Mexico

FIGURE

1



Proposed Delineation Boreholes Map

XTO Energy, Inc
James Ranch Unit DI 11 Battery
Incident Number: nAPP2502933606
Unit I & J, Sec 17, T22S, R30E
Eddy County, New Mexico

FIGURE
2



APPENDIX A

Referenced Well Records

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

Click to hideNews Bulletins

- Explore the NEW [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 322252103541401

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 322252103541401 22S.30E.20.12310

Eddy County, New Mexico
Latitude 32°22'52", Longitude 103°54'14" NAD27
Land-surface elevation 3,065 feet above NAVD88
The depth of the well is 129 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1952-02-26			D	62610	2981.47	NGVD29	1	Z		
1952-02-26			D	62611	2983.06	NAVD88	1	Z		
1952-02-26			D	72019	81.94		1	Z		
1959-02-19			D	62610	2990.45	NGVD29	1	Z		
1959-02-19			D	62611	2992.04	NAVD88	1	Z		
1959-02-19			D	72019	72.96		1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static

Section	Code	Description
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2025-04-23 10:29:05 EDT
0.3 0.21 nadww02



APPENDIX B

Photographic Log

**Photographic Log**

XTO Energy, Inc

James Ranch Unit DI 11 Battery

Incident Number nAPP2502933606



Photograph: 1 Date: 1/28/2025
Description: Trench/release area following release.
View: West



Photograph: 2 Date: 1/28/2025
Description: Trench/release area following release.
View: North



Photograph: 3 Date: 3/3/2025
Description: Trench area following recovery of fluids.
View: Northeast



Photograph: 4 Date: 3/3/2025
Description: Trench area following recovery of fluids.
View: Southeast

**Photographic Log**

XTO Energy, Inc

James Ranch Unit DI 11 Battery

Incident Number nAPP2502933606



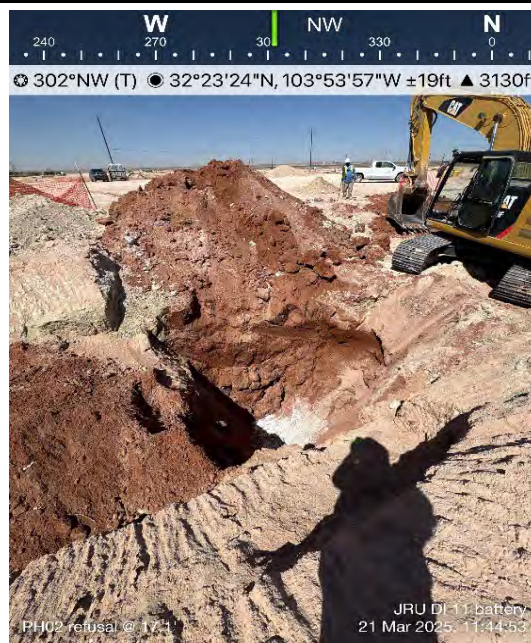
Photograph: 5 Date: 3/10/2025
Description: Trench box in trench.
View: East



Photograph: 6 Date: 3/10/2025
Description: Trench box and removing pipelines.
View: Northwest



Photograph: 7 Date: 3/20/2025
Description: Backfilled south trench area.
View: East



Photograph: 8 Date: 3/21/2025
Description: Pothole refusal at 17 feet bgs.
View: Northwest

From: [Knight, Tami C.](#)
To: [Brown, Colton S](#)
Cc: [Dirkx, Kaylan](#); [Woodall, Robert D](#); [Mcafee, Ashley A](#); [Tacoma Morrissey](#); [Ben Belill](#); [Kim Thomason](#); [Bisbey-Kuehn, Elizabeth A.](#)
Subject: RE: XTO Energy - Remediation Work Plan - James Ranch Unit DI 11 Battery - Incident Number nAPP2502933606
- Approved with Comments
Date: Friday, May 9, 2025 10:03:52 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.jpg](#)
[image005.jpg](#)

[**EXTERNAL EMAIL**]

Documentation of proposed delineation and remediation actions for the subject release incident was received from your office on May 9, 2025. The NMSLO Environmental Compliance Office (ECO) has reviewed the plan, and based on the information provided in the document received from your office, ECO has approved the workplan with the following comments:

1. This facility is in proximity to BLM mapped Scheer's beehive cactus habitat. If earth disturbance extends off pad a biological survey is required. The biological desktop review provided in the workplan did not address this.
2. All side walls and bases where equipment is being left in place must have confirmation samples collected.
3. Where hydrocarbons are going to have to remain in-situ due to equipment, ECO would like to see an application of a microbial agent before backfill.

Please submit the remediation closure report to eco@nmslo.gov.

Lessee and/or their contractor are responsible for ensuring the project manager and field personnel performing the work follow the approved work plan.

Environmental Compliance Office
New Mexico State Land Office
eco@nmslo.gov
nmstatelands.org

.....
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From: Brown, Colton S <colton.s.brown@exxonmobil.com>

Sent: Friday, May 9, 2025 7:20 AM

To: SLO Spills <spills@nmslo.gov>

Cc: Dirx, Kaylan <kaylan.dirx@exxonmobil.com>; Woodall, Robert D

<robert.d.woodall@exxonmobil.com>; McAfee, Ashley A <ashley.a.mcafee@exxonmobil.com>;

Tacoma Morrissey <tmorrissey@ensolum.com>; Ben Belill <bbelill@ensolum.com>; Kim Thomason

<kthomason@ensolum.com>

Subject: [EXTERNAL] XTO Energy - Remediation Work Plan - James Ranch Unit DI 11 Battery - Incident Number nAPP2502933606

On January 28, 2025, corrosion of a pipeline resulted in the release of 1,371 barrels (bbls) of produced water and 59 bbls of crude oil into an open excavated trench on the facility pad. An estimated 189 thousand cubic feet (mcf) of natural gas was vented during the release. A vacuum truck was dispatched to the Site and recovered approximately 1,430 bbls of release fluids. The release was assigned Incident Number nAPP2502933606 by the NMOCD. Since the release remained on pad, the Site is exempt from the Cultural Properties Protection Rule (CPP) and a desktop review was conducted to establish if the Site is within an area of possible threatened, endangered, and/or sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils. XTO requests approval to complete the following remediation activities: advance ten delineation boreholes via drill rig to achieve full vertical and lateral delineation, excavation of impacted soil where soil impacts can safely be removed by heavy equipment, and delineation and confirmation soil sampling.

XTO will complete the delineation and soil sampling activities within 90 days of the date of approval of this Work Plan. XTO believes the scope of work described above meets the requirements set forth in 19.15.29 NMAC and is protective of human health, the environment, and groundwater. As such, XTO respectfully requests approval of this Work Plan for Incident Number nAPP2502933606.

Thank you

Colton Brown
Spill Coordinator

ExxonMobil Upstream Company
3104 E. Greene St.
Carlsbad, NM 88220
Cell Phone: 575-988-2390
colton.s.brown@exxonmobil.com



APPENDIX C

Photographic Log

**Photographic Log**

XTO Energy, Inc

James Ranch Unit DI 11 Battery

Incident Number nAPP2502933606



Photograph: 1 Date: 1/28/2025
Description: Trench/release area following release.
View: West



Photograph: 2 Date: 1/28/2025
Description: Trench/release area following release.
View: North



Photograph: 3 Date: 3/3/2025
Description: Trench area following recovery of fluids.
View: Northeast



Photograph: 4 Date: 3/3/2025
Description: Trench area following recovery of fluids.
View: Southeast



Photographic Log

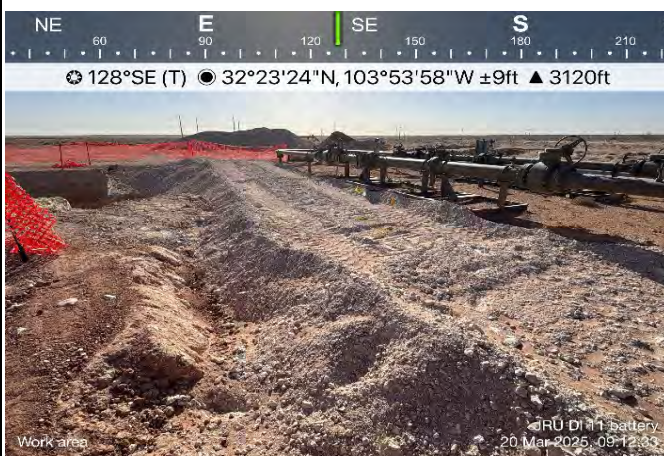
XTO Energy, Inc
James Ranch Unit DI 11 Battery
Incident Number nAPP2502933606



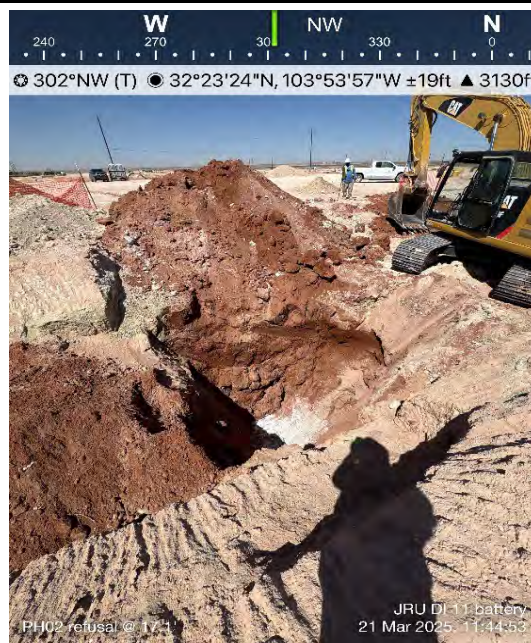
Photograph: 5 Date: 3/10/2025
Description: Trench box installed near PH03.
View: East



Photograph: 6 Date: 3/10/2025
Description: Trench box and removing pipelines.
View: Northwest



Photograph: 7 Date: 3/20/2025
Description: Backfill of south trench area for safety.
View: East



Photograph: 8 Date: 3/21/2025
Description: Pothole PH02 refusal at 17 feet bgs.
View: Northwest



Photographic Log

XTO Energy, Inc

James Ranch Unit DI 11 Battery

Incident Number nAPP2502933606

251°W (T) LAT: 32.390049 LON: -103.899236 ±6ft ▲ 3112ft



Ensolum, LLC

James Ranch Unit DI 11 Battery
29 Apr 2025, 10:28:51 MDT

Photograph: 9

Date: 4/29/2025

Description: Trench backfilled before drilling near PH03.

View: West

345°N (T) LAT: 32.390070 LON: -103.899313 ±13ft ▲ 3110ft



Ensolum, LLC

James Ranch Unit DI 11 Battery
29 Apr 2025, 10:30:02 MDT

Photograph: 10

Date: 4/29/2025

Description: Trench backfilled before drilling near PH02.

View: North

60°NE (T) LAT: 32.389841 LON: -103.899370 ±6ft ▲ 3119ft



Ensolum, LLC

James Ranch Unit D11 Battery
05 May 2025, 17:51:53 MDT

Photograph: 11

Date: 5/5/2025

Description: PH06 drilling rig setup.

View: North

142°SE (T) LAT: 32.390291 LON: -103.899209 ±13ft ▲ 3118ft



27.5-30'
Ensolum, LLC

James Ranch Unit D11 Battery
05 May 2025, 12:31:21 MDT

Photograph: 12

Date: 5/5/2025

Description: PH01 gypsum; 27.5' to 30' bgs.

View: Direct



Photographic Log

XTO Energy, Inc

James Ranch Unit DI 11 Battery

Incident Number nAPP2502933606

356°N (T) LAT: 32.390126 LON: -103.899244 ±13ft ▲ 3120ft



PH02 17.5-20'
Ensolum, LLC

James Ranch Unit D11 Battery
05 May 2025, 14:07:45 MDT

Photograph: 13

Date: 5/5/2025

Description: PH02 gypsum; 17.5' to 20' bgs.

View: Direct

266°W (T) LAT: 32.390061 LON: -103.899404 ±6ft ▲ 3123ft



PH04
Ensolum, LLC

James Ranch Unit D11 Battery
06 May 2025, 17:21:28 MDT

Photograph: 14

Date: 5/6/2025

Description: PH04 drilling rig setup.

View: West

267°W (T) LAT: 32.390206 LON: -103.899083 ±13ft ▲ 3119ft



PH07 0.5-20'
Ensolum, LLC

James Ranch Unit D11 Battery
06 May 2025, 11:26:38 MDT

Photograph: 15

Date: 5/6/2025

Description: PH07 lithology; surface to 20' bgs.

View: Direct

103°E (T) LAT: 32.390087 LON: -103.899620 ±13ft ▲ 3118ft



PH09 0.5-20'
Ensolum, LLC

James Ranch Unit
D11 Battery
07 May 2025
12:14:46 MDT

Photograph: 16

Date: 5/7/2025

Description: PH09 lithology; surface to 30' bgs.

View: Direct



Photographic Log

XTO Energy, Inc

James Ranch Unit DI 11 Battery

Incident Number nAPP2502933606

65°NE (T) LAT: 32.390345 LON: -103.899462 ±13ft ▲ 3117ft

PH08
Ensolum, LLCJames Ranch Unit D11 Battery
07 May 2025, 12:53:43 MDT

Photograph: 17

Date: 5/7/2025

Description: PH08 drilling rig setup.

View: East

270°W (T) LAT: 32.390326 LON: -103.899511 ±22ft ▲ 3118ft

PH08 17.5-20'
Ensolum, LLCJames Ranch Unit D11 Battery
07 May 2025, 14:45:57 MDT

Photograph: 18

Date: 5/7/2025

Description: PH08 lithology; 17.5' to 20' bgs.

View: Direct

92°E (T) LAT: 32.390451 LON: -103.899497 ±6ft ▲ 3110ft

PH11 0.5-20'
Ensolum, LLCJames Ranch Unit D11 Battery
08 May 2025, 11:42:23 MDT

Photograph: 19

Date: 5/8/2025

Description: PH11 lithology; surface to 20' bgs.

View: Direct



Sonic drilling - PH11 area

JRU DI 11 Battery
08 May 2025, 08:42:52

Photograph: 20

Date: 5/8/2025

Description: PH11/PH08 locations, adjacent to equipment.

View: Northeast

**Photographic Log**

XTO Energy, Inc.

James Ranch Unit DI 11 Battery

Incident Number nAPP2502933606



Photograph: 21

Date: 6/26/2025

Description: Pothole PH12 to 19' bgs facing south.



Photograph: 22


Date: 6/26/2025


Description: Final excavation extent near FS10 and adjacent pothole PH12 facing southeast.





APPENDIX D


Lithologic Soil Sampling Logs


							Sample Name: PH01		Date: 3.13.25	
							Site Name: James Ranch Unit DI 11 Battery			
							Incident Number: nAPP2502933606			
							Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: JDB		Method: Trackhoe/sonic	
Coordinates: 32.39029899, -103.89933421							Hole Diameter: 3 ft / 0.5 ft		Total Depth: 30 ft	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
						0	OPEN	0-8', Open excavation.		
						5				
D	5,605	130	N	PH01	10	10	SP-S	8'-15', SANDSTONE, dry, brown-dark brown, moderately consolidated, poorly graded, fine grain, trace clay, mild H/C odor, no stain.		
D	NS	35	N		11					
D	NS	111	N	PH01A	13					
D	NS	67	N		15	15	CH-S	15'-18', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, trace fine grain brown sand, trace pale green reduction spots, no stain, no odor.		
D	NS	15.4	N		16					
D	NS	33.2	N	PH01B	18					
D	207	11.8	N	PH01C	19	20	GYP	18'-30', GYPSUM, dry, white-light grey, poorly consolidated, friable, fine-micro crystalline no stain, no odor.		
D	1,238	5.2	N		22			@18', trackhoe refusal due to competent bedrock. Commence sonic drilling.		
D	1,148	5.0	N		23					
D	2,638	1.1	N	PH01D	25	25		24'-25', some light brown fine grain silt sand.		
D	812	4.5	N		27			@27', moderately-well consolidated.		
D	280	0.0	N	PH01E	29	30				
							TD	Total depth @ 30 feet bgs.		


							Sample Name: PH02		Date: 3.13.25
							Site Name: James Ranch Unit DI 11 Battery		
							Incident Number: nAPP2502933606		
							Job Number: 03C1558607		
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: JDB		Method: Trackhoe/sonic
Coordinates: 32.39014025, 103.89933608							Hole Diameter: 3 ft / 0.5 ft		Total Depth: 20 ft
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
						0	OPEN	0-8', Open excavation.	
						5			
D	13,809	22.7	N	PH02	10	10	SP-S	8'-16', SANDSTONE, dry, brown-dark brown, moderately consolidated, poorly graded, fine grain, trace clay, mild H/C odor, no stain.	
D	NS	74.2	N		11				
D	NS	31.9	N		12				
D	NS	54.3	N		13				
D	NS	75.4	N	PH02A	14				
D	NS	11.0	N		15	15			
D	NS	15.8	N		16		CH-S	16'-17', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, trace fine grain brown sand, no stain, no odor.	
D	NS	13.8	N	PH02B	17			@17', trackhoe refusal due to competent bedrock. Commence sonic drilling.	
D	<174	0.0	N	PH02C	18		GYP	17'-20', GYPSUM, dry, white-light grey, poorly consolidated, friable, fine-micro crystalline no stain, no odor.	
D	<174	0.0	N	PH02D	20	20			
							TD	Total Depth @ 20 feet bgs.	
						25			
						30			


 ENSOLUM								Sample Name: PH03		Date: 3.13.25	
								Site Name: James Ranch Unit DI 11 Battery			
								Incident Number: nAPP2502933606			
								Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: JDB		Method: Trackhoe	
Coordinates: 32.39002730, -103.89937903								Hole Diameter: 3 ft		Total Depth: 17 ft	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0	OPEN	0-10', Open excavation.			
						5					
M	30,912	95.8	N	PH03	10	10	SP-S	10'-15', SANDSTONE, dry, brown-dark brown, moderately consolidated, poorly graded, fine grain, trace clay, mild H/C odor, no stain.			
M	19,953	73.4	N		11						
D	NS	23.3	N		12						
D	NS	43.1	N		13						
D	NS	58	N	PH03A	14			12'-15', no odor.			
D	4,743	13.1	N	PH03B	15	15					
D	<162	7.9	N	PH03C	16		CH-S	15'-17', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, trace fine grain brown sand, trace white gypsum, no stain, no odor.			
D	<162	3.3	N	PH03D	17		TD	Total Depth @ 17 feet bgs (trackhoe refusal).			
						20					
						25					
						30					


							Sample Name: PH04		Date: 5/6/2025	
							Site Name: James Ranch Unit DI 11 Battery			
							Incident Number: nAPP2502933606			
							Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: AF, US		Method: Sonic	
Coordinates: 32.39029899, -103.89933421							Hole Diameter: 0.5'		Total Depth: 20'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
M	476	0.0	N	PH04	0.5	0	CCHE	0-1', CALICHE, dry, light brown-brown, very silty, no stain, no odor, compacted fill.		
D	>174	0.0	N	PH04A	2	5	ML-S	1'-5', SILTSTONE, dry, off white-pale green, non plastic, non-cohesive, abundant microcrystalline gypsum, friable, no stain, no odor.		
D	>174	0.0	N	PH04B	4					
D	>174	0.0	N	PH04C	6		CH-S	5'-15', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, trace fine grained brown sand, some pale grey reduction spots, no stain, no odor.		
D	>174	0.0	N	PH04D	8	10				
D	>174	0.0	N	PH04E	10					
D	>174	0.0	N	PH04F	14					
D	>174	0.0	N	PH04G	15	15				
D	>174	0.3	N	PH04H	16					
D	>174	0.3	N	PH04I	17			16'-18', some brown fine grained sand.		
D	>174	0.3	N	PH04J	20	20	GYP	18'-20', GYPSUM, dry, off white-pale gray, well consolidated, fine-micro crystalline, no stain, no odor.		
							TD	Total Depth @ 20 feet bgs.		
						25				
						30				


						Sample Name: PH06		Date: 5/6/2025	
						Site Name: James Ranch Unit DI 11 Battery			
						Incident Number: nAPP2502933606			
						Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: AF, US		Method: Sonic	
Coordinates: 32.389912, -103.899395						Hole Diameter: 0.5'		Total Depth: 20'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<174	1.3	N	PH06	0.5	0	ML-S	0-9', SILTSTONE, dry, off white-pale green, non plastic, non-cohesive, abundant microcrystalline gypsum, friable, no stain, no odor.	
D	<174	1.2	N	PH06A	2				
D	<174	1.5	N	PH06B	4				
D	<174	1.9	N			5			
D	<174	3.3	N	PH06C	6				
D	<174	0.8	N	PH06D	8				
D	<174	2.1	N	PH06E	10	10	CH-S	9'-20', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, trace fine grained brown sand, some pale grey reduction spots, no stain, no odor.	
D	<174	3.3	N	PH06F	14			14'-15', abundant off white gypsum.	
D	<174	4.5	N	PH06G	15	15			
D	<174	2.3	N	PH06H	16				
D	<174	4.5	N	PH06I	17				
D	<174	4.5	N	PH06J	20	20		19'-20', abundant off white gypsum.	
							TD	Total Depth @ 20 feet bgs.	
						25			
						30			


						Sample Name: PH07		Date: 5/6/2025	
						Site Name: James Ranch Unit DI 11 Battery			
						Incident Number: nAPP2502933606			
						Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: AF, US		Method: Sonic	
Coordinates: 32.390273, -103.899254						Hole Diameter: 0.5'		Total Depth: 29'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<162	0.1	N	PH07	1	0	CCHE	0-1', CALICHE, dry, light brown-brown, very silty, no stain, no odor, compacted fill.	
D	<162	0.3	N	PH07A	2	5	ML-S	1-10', SILTSTONE, dry, off white-pale green, non plastic, non-cohesive, abundant microcrystalline gypsum, abundant clay, no odor, no stain.	
D	<162	0.2	N	PH07B	4				
D	<174	1.8	N						
D	<174	2.1	N	PH07C	6				
D	<174	2.4	N	PH07D	8				
D	<174	1.3	N	PH07E	10	10	CH-S	10'-18', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, trace fine grained brown sand, some gypsum inclusions, no stain, no odor. 12'-13', some brown fine grained sand.	
D	<174	2.4	N	PH07F	13	15			
	<174	1.7	N	PH07G	14				
D	<174	1.3	N	PH07H	17				
D	<174	2.3	N	PH07I	18				
D	<174	1.2	N	PH07J	19	20	GYP	18'-29', GYPSUM, dry, off white-pale gray, well consolidated, fine-micro crystalline, no stain, no odor.	
D	<174	1.2	N		22				
D	<174	1.3	N		24				
D	<174	0.5	N	PH07K	25	25			
D	<174	0.7	N		28				
D	<174	0.7	N	PH07L	29	30	TD	Total Depth @ 29 feet bgs.	

						Sample Name: PH08		Date: 5/7/2025	
						Site Name: James Ranch Unit DI 11 Battery			
						Incident Number: nAPP2502933606			
						Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: AF, US		Method: Sonic	
Coordinates: 32.39029899, -103.89933421						Hole Diameter: 0.5'		Total Depth: 29'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<174	0.2	N	PH08	0.5	0	CCHE	0-1', CALICHE, dry, light brown-brown, very silty, no stain, no odor, compacted fill.	
D	<174	0.5	N	PH08A	2	5	ML-S	1-7', SILTSTONE, dry, off white-pale green, non plastic, non-cohesive, abundant microcrystalline gypsum, some clay, no odor, no stain.	
D	<174	0.6	N	PH08B	4				
D	<174	1	N	PH08C	6				
D	<174	0.4	N	PH08D	8	10	CH-S	7'-20', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, trace fine grained brown sand, some gypsum inclusions, no stain, no odor.	
D	<174	0.3	N	PH08E	10				
D	<174	0.5	N	PH08F	13				
D	<174	1	N	PH08G	14				
D	666	0.5	N	PH08H	16				
	1338	0.6	N	PH08I	17	15		15'-17.5', some brown fine grained sand.	
D	1,658	0.7	N	PH08J	18				
D	739.2	0.7	N	PH08K	19				
D	<174	0.5	N		21	20	GYP	20'-29', GYPSUM, dry, off white-pale gray, well consolidated, fine-micro crystalline, no stain, no odor.	
D	<174	0.2	N		23				
D	<174	0.6	N	PH08L	25				
D	<174	0.5	N		27	25		22'-22.5', some brown high plasticity clay.	
D	<174	0.3	N	PH08M	29				
						30	TD	Total Depth @ 29 feet bgs.	

							Sample Name: PH09		Date: 5/7/2025	
							Site Name: James Ranch Unit DI 11 Battery			
							Incident Number: nAPP2502933606			
							Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: AF, US		Method: Sonic	
Coordinates: 32.390284, -103.899422							Hole Diameter: 0.5'		Total Depth: 29'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
D	<174	0.2	N	PH09	0.5	0	CCHE	0-1', CALICHE, dry, light brown-brown, very silty, no stain, no odor, compacted fill.		
D	<174	0.5	N	PH09A	2	5	ML-S	1-5', SILTSTONE, dry, off white-pale green, non plastic, non-cohesive, abundant microcrystalline gypsum, some clay, no odor, no stain.		
D	<174	0.6	N	PH09B	4					
D	<174	0.5	N	PH09C	6					
D	<174	0.4	N	PH09D	8	10	CH-S	5'-16', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, some fine grained brown sand, some gypsum inclusions, no stain, no odor. 7.5'-10', abundant brown fine grained sand.		
D	<174	0.5	N	PH09E	10					
D	<174	0.5	N	PH09F	13					
D	<174	0.5	N	PH09G	14					
D	<174	1.2	N	PH09H	17	15	GYP	16'-29', GYPSUM, dry, off white-pale gray, well consolidated, fine-micro crystalline, no stain, no odor.		
D	<174	0.7	N	PH09I	18					
D	<174	0.7	N	PH09J	19					
D	<174	1.2	N		21					
D	<174	0.2	N		23					
D	<174	1.2	N	PH09K	25	20				
D	<174	0.5	N		27					
D	<174	0.3	N	PH09L	29					
						30	TD	Total Depth @ 29 feet bgs.		

						Sample Name: PH10		Date: 5/6/2025	
						Site Name: James Ranch Unit DI 11 Battery			
						Incident Number: nAPP2502933606			
						Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: AF, US		Method: Sonic	
Coordinates: 32.390095, -103.899405						Hole Diameter: 0.5'		Total Depth: 20'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	174	0.6	N	PH10	0.5	0	CCHE	0-1', CALICHE, dry, light brown-brown, very silty, no stain, no odor, compacted fill.	
							ML-S	1-4', SILTSTONE, dry, off white-pale green, non plastic, non-cohesive, abundant microcrystalline gypsum, some clay, no odor, no stain.	
D	241	0.5	N	PH10A	2				
D	174	0.4	N	PH10B	4				
D	241	0.0	N			5	CH-S	4'-16', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, trace fine grained brown sand, trace gypsum inclusions, no stain, no odor.	
D	207	0.0	N	PH10C	6				
D	<174	0.8	N	PH10D	8				
D	<174	0.7	N	PH10E	10	10		10'-11', some brown fine grained sand.	
D	<174	0.5	N	PH10F	14				
D	<174	0.7	N	PH10G	15	15			
D	<174	1.0	N	PH10H	16			16'-17', some brown fine grained sand.	
D	<174	0.9	N	PH10I	17		GYP	17'-20', GYPSUM, dry, off white-pale gray, well consolidated, fine-micro crystalline, no stain, no odor.	
D	<174	0.9	N	PH10J	20	20	TD	Total Depth @ 20 feet bgs.	

						Sample Name: PH11		Date: 5/8/2025	
						Site Name: James Ranch Unit DI 11 Battery			
						Incident Number: nAPP2502933606			
						Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: AF, US		Method: Sonic	
Coordinates: 32.390414, -103.899359						Hole Diameter: 0.5'		Total Depth: 19'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	1657	0.3	N	PH11	0.5	0	CCHE	0-1', CALICHE, dry, light brown-brown, very silty, no stain, no odor, compacted fill.	
D	890	0.4	N	PH11A	2	5	ML-S	1-9', SILTSTONE, dry, off white-pale green, non plastic, non-cohesive, abundant microcrystalline gypsum, some clay, no odor, no stain.	
D	<174	1.4	N	PH11B	4				
D	<174	0.7	N						
D	<174	0.8	N	PH11C	6				
D	<174	0.6	N	PH11D	8				
D	<174	0.7	N	PH11E	10	10	CH-S	9'-19', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, trace fine grained brown sand, trace gypsum inclusions, no stain, no odor.	
D	<174	0.5	N	PH11F	13				
D	<174	0.5	N	PH11G	14				
D	<174	0.7	N	PH11H	16	15			
D	<174	1.0	N	PH11I	17				
D	<174	0.9	N	PH11J	18			18'-19', abundant brown fine grained sand.	
D	<174	0.9	N	PH11K	19	20	TD	Total Depth @ 19 feet bgs.	

						Sample Name: PH12		Date: 6/25/2025	
						Site Name: James Ranch Unit DI 11 Battery			
						Incident Number: nAPP2502933606			
						Job Number: 03C1558607			
LITHOLOGIC / SOIL SAMPLING LOG						Logged By: AF, US		Method: Trackhoe	
Coordinates: 32.390381, -103.899426						Hole Diameter: 3'		Total Depth: 19'	
Comments: Field screening conducted with HACH Chloride Test Strips for chloride and PID for vapor. Chloride test performed with 1:4 dilution factor of soil to distilled water. Chloride results include a 40% correction factor. NS = Not Screened. Discrete soil sampling only.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<156	0.0	N	PH12	0.5	0	CCHE	0'-1', CALICHE, dry, light brown-brown, very silty, no stain, no odor, compacted fill.	
							ML-S	1'-5', SILTSTONE, dry, off white-pale grey, non plastic, non-cohesive, abundant microcrystalline gypsum, friable, no stain, no odor.	
D	<156	0.0	N	PH12A	2				
D	<156	0.0	N	PH12B	4				
D	<156	0.0	N	PH12C	6	5	SP	5'-6', SAND, dry, reddish brown-brown, poorly graded, fine grain, no stain, no odor.	
D	<156	0.0	N	PH12D	8		CH-S	6'-8', CLAYSTONE, dry, reddish brown, high plasticity, cohesive, no stain, no odor.	
							GYP	8'-19', GYPSUM, dry, off white-pale gray, poorly consolidated, fine-microcrystalline, no stain, no odor.	
D	<156	0.0	N	PH12E	10	10			
D	<156	0.0	N	PH12F	13				
D	<156	0.0	N	PH12G	14			@ 14', some light brown silty sand.	
D	<156	0.0	N	PH12H	16	15		16'-19', well consolidated.	
D	<156	0.0	N	PH12I	17			@17', trace brown silty sand.	
D	<156	0.0	N	PH12J	18				
D	<156	0.0	N	PH12K	19	20	TD	Total Depth @ 19 feet bgs.	



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation

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

March 21, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JAMES RANCH UNIT DI 11

Enclosed are the results of analyses for samples received by the laboratory on 03/13/25 16:59.

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: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH01 10	H251521-01	Soil	13-Mar-25 13:15	13-Mar-25 16:59
PH02 10	H251521-02	Soil	13-Mar-25 11:40	13-Mar-25 16:59
PH03 10	H251521-03	Soil	13-Mar-25 08:10	13-Mar-25 16:59
PH01A 13	H251521-04	Soil	13-Mar-25 13:21	13-Mar-25 16:59
PH02A 14	H251521-05	Soil	13-Mar-25 11:52	13-Mar-25 16:59
PH03A 14	H251521-06	Soil	13-Mar-25 09:40	13-Mar-25 16:59
PH01B 18	H251521-07	Soil	13-Mar-25 13:55	13-Mar-25 16:59
PH02B 17	H251521-08	Soil	13-Mar-25 12:57	13-Mar-25 16:59
PH03B 15	H251521-09	Soil	13-Mar-25 10:20	13-Mar-25 16:59
SW01 0-10	H251521-10	Soil	13-Mar-25 00:00	13-Mar-25 16:59
SW02 0-10	H251521-11	Soil	13-Mar-25 00:00	13-Mar-25 16:59

03/21/25 - Client changed the depth on -09 (see COC). This is the revised report and will replace the one sent on 03/17/21.

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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: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

PH01 10
H251521-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2200		16.0	mg/kg	4	5031448	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		116 %		71.5-134	5031401	JH	14-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	256	10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	37.4	10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

Surrogate: 1-Chlorooctane		80.5 %		44.4-145	5031358	MS	14-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane		79.1 %		40.6-153	5031358	MS	14-Mar-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

PH02 10
H251521-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5600		16.0	mg/kg	4	5031450	CT	14-Mar-25	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134 5031401 JH 14-Mar-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	67.2		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	10.4		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

Surrogate: 1-Chlorooctane 81.1 % 44.4-145 5031358 MS 14-Mar-25 8015B

Surrogate: 1-Chlorooctadecane 78.9 % 40.6-153 5031358 MS 14-Mar-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

PH03 10
H251521-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	2130		16.0	mg/kg	4	5031450	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	GC-NC
Toluene*	0.339		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	GC-NC1
Ethylbenzene*	0.609		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	GC-NC1
Total Xylenes*	1.82		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	2.76		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134 5031401 JH 14-Mar-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	105		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	16.5		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

Surrogate: 1-Chlorooctane 84.7 % 44.4-145 5031358 MS 14-Mar-25 8015B

Surrogate: 1-Chlorooctadecane 81.7 % 40.6-153 5031358 MS 14-Mar-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

PH01A 13
H251521-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4480		16.0	mg/kg	4	5031450	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	0.952		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	GC-NC1
Total Xylenes*	2.01		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	2.97		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 141 % 71.5-134 5031401 JH 14-Mar-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	164		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	3470		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	611		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

Surrogate: 1-Chlorooctane 128 % 44.4-145 5031358 MS 14-Mar-25 8015B

Surrogate: 1-Chlorooctadecane 125 % 40.6-153 5031358 MS 14-Mar-25 8015B

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

PH02A 14
H251521-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7680		16.0	mg/kg	4	5031450	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	0.218		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	GC-NC1
Total Xylenes*	0.210		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	0.428		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134 5031401 JH 14-Mar-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	216		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	52.7		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

Surrogate: 1-Chlorooctane 87.1 % 44.4-145 5031358 MS 14-Mar-25 8015B

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153 5031358 MS 14-Mar-25 8015B

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

PH03A 14
H251521-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5760		16.0	mg/kg	4	5031450	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			114 %		71.5-134	5031401	JH	14-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.8 %		44.4-145	5031358	MS	14-Mar-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.9 %		40.6-153	5031358	MS	14-Mar-25	8015B	
--------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

PH01B 18
H251521-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	3760		16.0	mg/kg	4	5031450	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		71.5-134	5031401	JH	14-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	47.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.0 %		44.4-145	5031358	MS	14-Mar-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.3 %		40.6-153	5031358	MS	14-Mar-25	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: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

PH02B 17
H251521-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7840		16.0	mg/kg	4	5031450	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %		71.5-134	5031401	JH	14-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.1 %		44.4-145	5031358	MS	14-Mar-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			82.1 %		40.6-153	5031358	MS	14-Mar-25	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: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

PH03B 15
H251521-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4240		16.0	mg/kg	4	5031450	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			112 %		71.5-134	5031401	JH	14-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	31.2		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.6 %		44.4-145	5031358	MS	14-Mar-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.5 %		40.6-153	5031358	MS	14-Mar-25	8015B	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

SW01 0-10
H251521-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5120		16.0	mg/kg	4	5031450	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			112 %		71.5-134	5031401	JH	14-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	13.5		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

Surrogate: 1-Chlorooctane			82.8 %		44.4-145	5031358	MS	14-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane			77.7 %		40.6-153	5031358	MS	14-Mar-25	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: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

SW02 0-10
H251521-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4240		16.0	mg/kg	4	5031450	CT	17-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5031401	JH	14-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5031401	JH	14-Mar-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %		71.5-134	5031401	JH	14-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
DRO >C10-C28*	19.2		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5031358	MS	14-Mar-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.9 %		44.4-145	5031358	MS	14-Mar-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			74.1 %		40.6-153	5031358	MS	14-Mar-25	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: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 5031448 - 1:4 DI Water**Blank (5031448-BLK1)**

Prepared: 14-Mar-25 Analyzed: 17-Mar-25

Chloride	ND	16.0	mg/kg						
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LCS (5031448-BS1)

Prepared: 14-Mar-25 Analyzed: 17-Mar-25

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (5031448-BSD1)

Prepared: 14-Mar-25 Analyzed: 17-Mar-25

Chloride	448	16.0	mg/kg	400	112	80-120	7.41	20	
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Batch 5031450 - 1:4 DI Water**Blank (5031450-BLK1)**

Prepared & Analyzed: 14-Mar-25

Chloride	ND	16.0	mg/kg						
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LCS (5031450-BS1)

Prepared & Analyzed: 14-Mar-25

Chloride	432	16.0	mg/kg	400	108	80-120			
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LCS Dup (5031450-BSD1)

Prepared & Analyzed: 14-Mar-25

Chloride	448	16.0	mg/kg	400	112	80-120	3.64	20	
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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5031401 - Volatiles**Blank (5031401-BLK1)**

Prepared & Analyzed: 14-Mar-25

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)	0.0556		mg/kg	0.0500		111	71.5-134			

LCS (5031401-BS1)

Prepared & Analyzed: 14-Mar-25

Benzene	2.00	0.050	mg/kg	2.00		100	82.8-130			
Toluene	2.11	0.050	mg/kg	2.00		105	86-128			
Ethylbenzene	2.17	0.050	mg/kg	2.00		109	85.9-128			
m,p-Xylene	4.23	0.100	mg/kg	4.00		106	89-129			
o-Xylene	2.12	0.050	mg/kg	2.00		106	86.1-125			
Total Xylenes	6.35	0.150	mg/kg	6.00		106	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	71.5-134			

LCS Dup (5031401-BSD1)

Prepared & Analyzed: 14-Mar-25

Benzene	1.91	0.050	mg/kg	2.00		95.5	82.8-130	4.61	15.8	
Toluene	2.08	0.050	mg/kg	2.00		104	86-128	1.54	15.9	
Ethylbenzene	2.15	0.050	mg/kg	2.00		108	85.9-128	0.990	16	
m,p-Xylene	4.17	0.100	mg/kg	4.00		104	89-129	1.47	16.2	
o-Xylene	2.13	0.050	mg/kg	2.00		106	86.1-125	0.333	16.7	
Total Xylenes	6.30	0.150	mg/kg	6.00		105	88.2-128	0.866	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
21-Mar-25 17:43

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5031358 - General Prep - Organics**Blank (5031358-BLK1)**

Prepared: 13-Mar-25 Analyzed: 14-Mar-25

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	44.4		mg/kg	50.0		88.8	44.4-145			
Surrogate: 1-Chlorooctadecane	41.7		mg/kg	50.0		83.5	40.6-153			

LCS (5031358-BS1)

Prepared: 13-Mar-25 Analyzed: 14-Mar-25

GRO C6-C10	208	10.0	mg/kg	200		104	81.5-123			
DRO >C10-C28	192	10.0	mg/kg	200		95.8	77.7-122			
Total TPH C6-C28	400	10.0	mg/kg	400		99.9	80.9-121			
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.6	44.4-145			
Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.1	40.6-153			

LCS Dup (5031358-BSD1)

Prepared: 13-Mar-25 Analyzed: 14-Mar-25

GRO C6-C10	215	10.0	mg/kg	200		107	81.5-123	3.14	13	
DRO >C10-C28	200	10.0	mg/kg	200		99.8	77.7-122	4.12	15.6	
Total TPH C6-C28	414	10.0	mg/kg	400		104	80.9-121	3.61	18.5	
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		100	44.4-145			
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		95.6	40.6-153			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Ben Bell				P.O. #:															
Address: 3122 National Parks Hwy				Company: XTO Energy Inc															
City: Carlsbad				Attn: Colton Brown															
State: NM Zip: 88220				Address: 3104 E Green St															
Phone #989 854 0852 Fax #:				City: Carlsbad															
Project #: 0301558607 Project Owner: XTO				State: NM Zip: 88220															
Project Name: James Ranch Unit VI 11				Phone #:															
Project Location: 32.39061,-103.89566				Fax #:															
Sampler Name: Joshua Boxley																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	Chlorides	TPH	BTEX							
H251521	PH01	10	6	1	SOIL			3.3.25	1315	X	X	X							
1	PH02	10	1	1	WASTEWATER				1140										
2	PH03	10	1	1	SLUDGE				0810										
3	PH04	10	1	1	OTHER :				1321										
4	PH01A	103-10504	1	1	ACID/BASE:				1152										
5	PH024	103-10504	1	1	ICE / COOL				0940										
6	PH03A	14	1	1	OTHER :				1355										
7	PH01B	18	1	1					1251										
8	PH02B	17	1	1					1020										
9	PH03B	15	1	1															
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Relinquished By: [Signature]				Date: 3/3/05				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:							
Time: 1059				Time: 1059															
Date: 3/3/05				Date: 3/3/05															
Time: 1059				Time: 1059															
Relinquished By: [Signature]				Date: 3/3/05				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:							
Time: 1059				Time: 1059															
Date: 3/3/05				Date: 3/3/05															
Time: 1059				Time: 1059															
Relinquished By: [Signature]				Date: 3/3/05				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:							
Time: 1059				Time: 1059															
Date: 3/3/05				Date: 3/3/05															
Time: 1059				Time: 1059															
Relinquished By: [Signature]				Date: 3/3/05				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:							
Time: 1059				Time: 1059															
Date: 3/3/05				Date: 3/3/05															
Time: 1059				Time: 1059															
Relinquished By: [Signature]				Date: 3/3/05				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:							
Time: 1059				Time: 1059															
Date: 3/3/05				Date: 3/3/05															
Time: 1059				Time: 1059															
Relinquished By: [Signature]				Date: 3/3/05				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:							
Time: 1059				Time: 1059															
Date: 3/3/05				Date: 3/3/05															
Time: 1059				Time: 1059															
Relinquished By: [Signature]				Date: 3/3/05				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:							
Time: 1059				Time: 1059															
Date: 3/3/05				Date: 3/3/05															
Time: 1059				Time: 1059															
Relinquished By: [Signature]				Date: 3/3/05				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:							
Time: 1059				Time: 1059															
Date: 3/3/05				Date: 3/3/05															
Time: 1059				Time: 1059															
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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: Ensolum, LLC

Project Manager: Ben Belli

Address: 3122 National Parks Hwy

City: Carlsbad

Phone #: 989 854 0852

Project #: 03C1558607 Project Owner: XTO

Project Name: Jones Ranch Unit DE 11

Project Location: 32,39061, -103.89866

Sample Name: Joshua Boxley

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TIME

TIME

TIME

TIME

TIME

TIME

TIME

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Chlorides

TPH

BTEX

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy Inc

Attn: Colton Brown

Address: 3104 E Green St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

PRESERV

SAMPLING

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

Relinquished By:

Date: 8/2/25

Received By:

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

All Results are emailed. Please provide Email address: @ensolum.com, T Morrissey@ensolum.com, KThomason@ensolum.com

Relinquished By:

Date: 8/2/25

Received By:

REMARKS: 1002502933606

Incident: 2147571001

Turnaround Time:

Standard ☐ Rush ☒

Bacteria (only) ☐

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Intact ☐ Yes ☒ No

CHECKED BY: (Initials)

Thermometer ID: #110

Correction Factor: 0.32

48

Bacteria (only) ☐

Cool ☐ Intact ☐

Observed Temp. °C

Corrected Temp. °C



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

March 27, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JAMES RANCH UNIT DI 11

Enclosed are the results of analyses for samples received by the laboratory on 03/25/25 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2025
Reported: 03/27/2025
Project Name: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Location: XTO 32.39061-103.89866

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PH 03C 16' (H251733-01)

BTX 8021B			mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.93	96.4	2.00	1.77		
Toluene*	<0.050	0.050	03/26/2025	ND	2.18	109	2.00	0.742		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.44	122	2.00	0.550		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.34	122	6.00	0.919		
Total BTX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	199	99.7	200	2.87	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	203	101	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.3 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2025
Reported: 03/27/2025
Project Name: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Location: XTO 32.39061-103.89866

Sampling Date: 03/21/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PH 03D 17' (H251733-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.93	96.4	2.00	1.77		
Toluene*	<0.050	0.050	03/26/2025	ND	2.18	109	2.00	0.742		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.44	122	2.00	0.550		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.34	122	6.00	0.919		
Total BTEX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	199	99.7	200	2.87	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	203	101	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2025
 Reported: 03/27/2025
 Project Name: JAMES RANCH UNIT DI 11
 Project Number: 03C51558607
 Project Location: XTO 32.39061-103.89866

Sampling Date: 03/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 05 1' (H251733-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.93	96.4	2.00	1.77		
Toluene*	<0.050	0.050	03/26/2025	ND	2.18	109	2.00	0.742		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.44	122	2.00	0.550		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.34	122	6.00	0.919		
Total BTEx	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	199	99.7	200	2.87	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	203	101	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.3 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/25/2025
Reported: 03/27/2025
Project Name: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Location: XTO 32.39061-103.89866

Sampling Date: 03/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PH 05A 2' (H251733-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.93	96.4	2.00	1.77		
Toluene*	<0.050	0.050	03/26/2025	ND	2.18	109	2.00	0.742		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.44	122	2.00	0.550		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.34	122	6.00	0.919		
Total BTEX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	199	99.7	200	2.87	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	203	101	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2025
Reported: 03/27/2025
Project Name: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Location: XTO 32.39061-103.89866

Sampling Date: 03/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PH 05B 4' (H251733-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.93	96.4	2.00	1.77		
Toluene*	<0.050	0.050	03/26/2025	ND	2.18	109	2.00	0.742		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.44	122	2.00	0.550		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.34	122	6.00	0.919		
Total BTEx	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	199	99.7	200	2.87	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	203	101	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 62.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 59.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/25/2025
Reported: 03/27/2025
Project Name: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Location: XTO 32.39061-103.89866

Sampling Date: 03/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PH 07 1' (H251733-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.93	96.4	2.00	1.77		
Toluene*	<0.050	0.050	03/26/2025	ND	2.18	109	2.00	0.742		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.44	122	2.00	0.550		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.34	122	6.00	0.919		
Total BTEx	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	199	99.7	200	2.87	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	203	101	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/25/2025
Reported: 03/27/2025
Project Name: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Location: XTO 32.39061-103.89866

Sampling Date: 03/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PH 07A 2' (H251733-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.93	96.4	2.00	1.77		
Toluene*	<0.050	0.050	03/26/2025	ND	2.18	109	2.00	0.742		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.44	122	2.00	0.550		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.34	122	6.00	0.919		
Total BTEX	<0.300	0.300	03/26/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	199	99.7	200	2.87	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	203	101	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/25/2025
Reported: 03/27/2025
Project Name: JAMES RANCH UNIT DI 11
Project Number: 03C51558607
Project Location: XTO 32.39061-103.89866

Sampling Date: 03/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PH 07B 4' (H251733-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2025	ND	1.93	96.4	2.00	1.77		
Toluene*	<0.050	0.050	03/26/2025	ND	2.18	109	2.00	0.742		
Ethylbenzene*	<0.050	0.050	03/26/2025	ND	2.44	122	2.00	0.550		
Total Xylenes*	<0.150	0.150	03/26/2025	ND	7.34	122	6.00	0.919		
Total BTEX	<0.300	0.300	03/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/26/2025	ND	199	99.7	200	2.87	
DRO >C10-C28*	<10.0	10.0	03/26/2025	ND	203	101	200	4.65	
EXT DRO >C28-C36	<10.0	10.0	03/26/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST			
Project Manager: Ben Beilli				P.O. #:							
Address: 601 N Marientfeld Street, suite 400				Company: XTO Energy							
City: Midland				Attn: Colton Brown							
State: TX Zip: 79701				Address:							
Phone #: 989-854-0852 Fax #:				City:							
Project #: 03C1558607 Project Owner:				State: NM Zip:							
Project Name: James Ranch Unit DI 11 Battery				Phone #:							
Project Location: 32.39061, -103.89866				Fax #:							
Sampler Name: Uriel Santillana											
<small>FOR LAB USE ONLY</small>											
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING				
					GROUNDWATER						
					WASTEWATER						
					SOIL						
					OIL						
					SLUDGE						
					OTHER :						
					ACID/BASE:						
					ICE / COOL						
					OTHER :						
								DATE	TIME		
Has 1733	PH03C	16'	G	1				3/21/25	1325	X	Chloride
2	PH03D	17'			X			3/21/25	1335	X	BTEX
3	PH05	1'						3/20/25	1118		
4	PH05A	2'									
5	PH05B	4'									
6	PH07	1'									
7	PH07A	2'									
8	PH07B	4'									
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Relinquished By:				Date: 3-25-25	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:					
Relinquished By:				Time: 1:50	Received By:	All Results are emailed. Please provide Email address:					
				Date:	Received By:	Remarks:					
				Time:	Received By:	Incident #: nAPP2502933606					
Delivered By: (Circle One)				Observed Temp. °C: 1.9	Sample Condition:	CHECKED BY:	Turnaround Time:				
Sampler - UPS - Bus - Other:				Corrected Temp. °C: 8.2	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	(Initials)	Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>				
					Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) <input type="checkbox"/>				
							Cool <input type="checkbox"/> Intact <input type="checkbox"/>				
							Yes <input type="checkbox"/> No <input type="checkbox"/>				
							Corrected Temp. °C:				

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

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

April 03, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 13:20.

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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW 12 0-10'	H251809-01	Soil	26-Mar-25 14:25	27-Mar-25 13:20
SW 05 0-8'	H251809-02	Soil	26-Mar-25 13:00	27-Mar-25 13:20
SW 04 0-8'	H251809-03	Soil	26-Mar-25 11:05	27-Mar-25 13:20
SW 03 0-8'	H251809-04	Soil	26-Mar-25 13:20	27-Mar-25 13:20
SW 13 0-10'	H251809-05	Soil	26-Mar-25 13:35	27-Mar-25 13:20
FS 01 8'	H251809-06	Soil	26-Mar-25 13:05	27-Mar-25 13:20
FS 02 8'	H251809-07	Soil	26-Mar-25 13:07	27-Mar-25 13:20
FS 03 8'	H251809-08	Soil	26-Mar-25 13:08	27-Mar-25 13:20
FS 04 8'	H251809-09	Soil	26-Mar-25 13:10	27-Mar-25 13:20
FS 05 8'	H251809-10	Soil	26-Mar-25 13:11	27-Mar-25 13:20
FS 06 8'	H251809-11	Soil	26-Mar-25 13:12	27-Mar-25 13:20
FS 07 8'	H251809-12	Soil	26-Mar-25 13:13	27-Mar-25 13:20
FS 08 8'	H251809-13	Soil	26-Mar-25 13:14	27-Mar-25 13:20
FS 09 8'	H251809-14	Soil	26-Mar-25 13:15	27-Mar-25 13:20

04/03/25 - Client changed the sample ID on -01 and -05 (see COC). This is the revised report and will replace the one sent on 03/31/25

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

SW 12 0-10'
H251809-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	176		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050	0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B
Toluene*	<0.050	0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B
Total BTEX	<0.300	0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B

Surrogate: 4-Bromofluorobenzene (PID)	137 %	71.5-134	5032731	JH	27-Mar-25	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B

Surrogate: 1-Chlorooctane	82.3 %	44.4-145	5032725	MS	27-Mar-25	8015B
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Surrogate: 1-Chlorooctadecane	80.8 %	40.6-153	5032725	MS	27-Mar-25	8015B
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

SW 05 0-8'
H251809-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			133 %	71.5-134		5032731	JH	27-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.1 %	44.4-145		5032725	MS	27-Mar-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.7 %	40.6-153		5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

SW 04 0-8'
H251809-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	320		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	129 %	71.5-134	5032731	JH	27-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane	83.2 %	44.4-145	5032725	MS	27-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane	82.3 %	40.6-153	5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

SW 03 0-8'
H251809-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			132 %	71.5-134		5032731	JH	27-Mar-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
Surrogate: 1-Chlorooctane			79.6 %	44.4-145		5032725	MS	27-Mar-25	8015B	
Surrogate: 1-Chlorooctadecane			78.5 %	40.6-153		5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

SW 13 0-10'
H251809-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	304		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050	0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B
Toluene*	<0.050	0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B
Total BTEX	<0.300	0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B

Surrogate: 4-Bromofluorobenzene (PID)	136 %	71.5-134	5032731	JH	27-Mar-25	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B

Surrogate: 1-Chlorooctane	82.5 %	44.4-145	5032725	MS	27-Mar-25	8015B
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Surrogate: 1-Chlorooctadecane	81.3 %	40.6-153	5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

FS 01 8'
H251809-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	4700		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			139 %		71.5-134	5032731	JH	27-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	151		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	22.6		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane			76.3 %		44.4-145	5032725	MS	27-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane			78.0 %		40.6-153	5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

FS 02 8'
H251809-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	6240		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			137 %		71.5-134	5032731	JH	27-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	412		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	66.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane			79.0 %		44.4-145	5032725	MS	27-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane			88.3 %		40.6-153	5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

FS 03 8'
H251809-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	1870		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			143 %		71.5-134	5032731	JH	27-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	80.3		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane			79.5 %		44.4-145	5032725	MS	27-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane			81.6 %		40.6-153	5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

FS 04 8'
H251809-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7730		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		133 %		71.5-134		5032731	JH	27-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	196		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	32.9		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane		76.6 %		44.4-145		5032725	MS	27-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane		80.6 %		40.6-153		5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

FS 05 8'
H251809-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	7060		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		143 %		71.5-134		5032731	JH	27-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	209		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	30.5		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane		82.4 %		44.4-145		5032725	MS	27-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane		85.0 %		40.6-153		5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

FS 06 8'
H251809-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	9060		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			135 %		71.5-134	5032731	JH	27-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	319		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	51.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane			80.6 %		44.4-145	5032725	MS	27-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane			89.0 %		40.6-153	5032725	MS	27-Mar-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

FS 07 8'
H251809-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	8000		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032731	JH	27-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032731	JH	27-Mar-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			135 %		71.5-134	5032731	JH	27-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	335		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	73.2		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.7 %		44.4-145	5032725	MS	27-Mar-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.2 %		40.6-153	5032725	MS	27-Mar-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

FS 08 8'
H251809-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	5460		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5032732	JH	28-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032732	JH	28-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032732	JH	28-Mar-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5032732	JH	28-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032732	JH	28-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			114 %		71.5-134	5032732	JH	28-Mar-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	43.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane			74.5 %		44.4-145	5032725	MS	27-Mar-25	8015B	
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Surrogate: 1-Chlorooctadecane			74.6 %		40.6-153	5032725	MS	27-Mar-25	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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

FS 09 8'
H251809-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	9600		16.0	mg/kg	4	5032826	HM	28-Mar-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5032732	JH	28-Mar-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5032732	JH	28-Mar-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5032732	JH	28-Mar-25	8021B	GC-NC
Total Xylenes*	0.195		0.150	mg/kg	50	5032732	JH	28-Mar-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5032732	JH	28-Mar-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134 5032732 JH 28-Mar-25 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
DRO >C10-C28*	234		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	
EXT DRO >C28-C36	39.9		10.0	mg/kg	1	5032725	MS	27-Mar-25	8015B	

Surrogate: 1-Chlorooctane 83.1 % 44.4-145 5032725 MS 27-Mar-25 8015B

Surrogate: 1-Chlorooctadecane 87.1 % 40.6-153 5032725 MS 27-Mar-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 5032826 - 1:4 DI Water									
Blank (5032826-BLK1)									
					Prepared & Analyzed: 28-Mar-25				
Chloride	ND	16.0	mg/kg						
LCS (5032826-BS1)									
					Prepared & Analyzed: 28-Mar-25				
Chloride	416	16.0	mg/kg	400		104	80-120		
LCS Dup (5032826-BSD1)									
					Prepared & Analyzed: 28-Mar-25				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20

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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5032731 - Volatiles**Blank (5032731-BLK1)**

Prepared & Analyzed: 27-Mar-25

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)	0.0660		mg/kg	0.0500		132	71.5-134			

LCS (5032731-BS1)

Prepared & Analyzed: 27-Mar-25

Benzene	2.15	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.33	0.050	mg/kg	2.00		117	86-128			
Ethylbenzene	2.58	0.050	mg/kg	2.00		129	85.9-128			BS-3
m,p-Xylene	5.21	0.100	mg/kg	4.00		130	89-129			BS-3
o-Xylene	2.64	0.050	mg/kg	2.00		132	86.1-125			BS1
Total Xylenes	7.85	0.150	mg/kg	6.00		131	88.2-128			BS1
Surrogate: 4-Bromofluorobenzene (PID)	0.0612		mg/kg	0.0500		122	71.5-134			

LCS Dup (5032731-BSD1)

Prepared & Analyzed: 27-Mar-25

Benzene	2.15	0.050	mg/kg	2.00		107	82.8-130	0.251	15.8	
Toluene	2.28	0.050	mg/kg	2.00		114	86-128	2.26	15.9	
Ethylbenzene	2.50	0.050	mg/kg	2.00		125	85.9-128	2.88	16	
m,p-Xylene	5.07	0.100	mg/kg	4.00		127	89-129	2.59	16.2	
o-Xylene	2.58	0.050	mg/kg	2.00		129	86.1-125	2.43	16.7	BS-3
Total Xylenes	7.65	0.150	mg/kg	6.00		128	88.2-128	2.54	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0584		mg/kg	0.0500		117	71.5-134			

Batch 5032732 - Volatiles**Blank (5032732-BLK1)**

Prepared: 27-Mar-25 Analyzed: 28-Mar-25

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							

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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: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5032732 - Volatiles**Blank (5032732-BLK1)**

Prepared: 27-Mar-25 Analyzed: 28-Mar-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0565		mg/kg	0.0500		113	71.5-134			

LCS (5032732-BS1)

Prepared: 27-Mar-25 Analyzed: 28-Mar-25

Benzene	1.72	0.050	mg/kg	2.00		85.9	82.8-130			
Toluene	1.89	0.050	mg/kg	2.00		94.4	86-128			
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.4	85.9-128			
m,p-Xylene	3.90	0.100	mg/kg	4.00		97.5	89-129			
o-Xylene	1.96	0.050	mg/kg	2.00		97.9	86.1-125			
Total Xylenes	5.86	0.150	mg/kg	6.00		97.6	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	71.5-134			

LCS Dup (5032732-BS1)

Prepared: 27-Mar-25 Analyzed: 28-Mar-25

Benzene	1.65	0.050	mg/kg	2.00		82.3	82.8-130	4.30	15.8	BS-3
Toluene	1.81	0.050	mg/kg	2.00		90.6	86-128	4.12	15.9	
Ethylbenzene	1.86	0.050	mg/kg	2.00		92.9	85.9-128	4.77	16	
m,p-Xylene	3.73	0.100	mg/kg	4.00		93.2	89-129	4.48	16.2	
o-Xylene	1.88	0.050	mg/kg	2.00		94.1	86.1-125	4.05	16.7	
Total Xylenes	5.61	0.150	mg/kg	6.00		93.5	88.2-128	4.33	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: JAMES RANCH UNIT DI 11 BATTER
Project Number: 03C51558607
Project Manager: BEN BELILL
Fax To:

Reported:
03-Apr-25 12:11

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5032725 - General Prep - Organics**Blank (5032725-BLK1)**

Prepared & Analyzed: 27-Mar-25

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	40.5		mg/kg	50.0		81.0	44.4-145			
Surrogate: 1-Chlorooctadecane	39.7		mg/kg	50.0		79.4	40.6-153			

LCS (5032725-BS1)

Prepared & Analyzed: 27-Mar-25

GRO C6-C10	194	10.0	mg/kg	200		97.2	81.5-123			
DRO >C10-C28	189	10.0	mg/kg	200		94.7	77.7-122			
Total TPH C6-C28	384	10.0	mg/kg	400		96.0	80.9-121			
Surrogate: 1-Chlorooctane	42.2		mg/kg	50.0		84.4	44.4-145			
Surrogate: 1-Chlorooctadecane	41.3		mg/kg	50.0		82.5	40.6-153			

LCS Dup (5032725-BSD1)

Prepared & Analyzed: 27-Mar-25

GRO C6-C10	196	10.0	mg/kg	200		98.2	81.5-123	1.00	13	
DRO >C10-C28	189	10.0	mg/kg	200		94.5	77.7-122	0.279	15.6	
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	80.9-121	0.373	18.5	
Surrogate: 1-Chlorooctane	42.9		mg/kg	50.0		85.9	44.4-145			
Surrogate: 1-Chlorooctadecane	42.3		mg/kg	50.0		84.6	40.6-153			

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO										ANALYSIS REQUEST									
Company Name: Ensolum, LLC										P.O. #:									
Project Manager: Ben Bellill										Company: XTO Energy									
Address: 601 N Marientfeld Street, suite 400										Attn: Colton Brown									
City: Midland										Address:									
State: TX Zip: 79701										City:									
Phone #: 989-854-0852 Fax #:										State: NM Zip:									
Project #: 03C1558607 Project Owner:										Phone #:									
Project Name: James Ranch Unit DI 11 Battery - Spills										Fax #:									
Project Location: 32.39061, -103.89866																			
Sampler Name: Uriel Santillana																			
FOR LAB USE ONLY																			
Lab I.D.										Sample I.D.									
Depth (feet)										(G)RAB OR (C)OMP.									
										# CONTAINERS									
										GROUNDWATER									
										WASTEWATER									
										SOIL									
										OIL									
										SLUDGE									
										OTHER:									
										ACID/BASE:									
										ICE / COOL									
										OTHER:									
										DATE									
										TIME									
HLS1809										Chloride									
SW213 *										BTEX									
0-10'										TPH									
C 1																			
SW05																			
0-8'																			
SW04																			
0-8'																			
SW03																			
0-10'																			
SW213																			
8'																			
FS01																			
FS02																			
FS03																			
FS04																			
FS05																			
1311																			
1308																			
1305																			
1335																			
1320																			
1105																			
1300																			
3/26/25																			
1425																			
1300																			
1305																			
1307																			
1310																			
1311																			
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Relinquished By: [Signature]										Received By: [Signature]									
Date: 8/27/25										Date: 8/27/25									
Time: 1:30										Time: 1:30									
Relinquished By: [Signature]										Received By: [Signature]									
Delivered By: (Circle One)										Observed Temp.: °C									
Sampler - UPS - Bus - Other:										Corrected Temp.: °C									
										Sample Condition									
										Cool Intact									
										Yes Yes									
										No No									
										CHECKED BY: (Initials)									
										Turnaround Time: Standard									
										Thermometer ID #43 #140									
										Correction Factor: 0.3C 10.32									
										Bacteria (only) Sample Condition									
										Cool Intact									
										Yes Yes									
										No No									
										Corrected Temp.: °C									
										CFCM: 48605000									
										Remarks: * Customer requested ID change.									
										Incident #: nAPP2502933606									
										CC: 2147571001									
										GFCM: 48605000									
										Verbal Result: Yes No Add'l Phone #:									
										All Results are emailed. Please provide Email address:									
										bbellill@ensolum.com khomason@ensolum.com usantillana@ensolum.com									
										bbsell@ensolum.com									
										FORM-CDOR-R-312-10/07/21									



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ben Beill

Address: 601 N Marientfeld Street, Suite 400

City: Midland

Phone #: 989-854-0852

Project #: 03C1558607

Project Name: James Ranch Unit D1 11 Battery

Project Location: 32.39061, -103.89866

Sampler Name: Uriel Santillana

BILL TO

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

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Relinquished By:

Date: 8/27/25

Received By:

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

All Results are emailed. Please provide Email address:

benbeill@ensolum.com, T.Morrissey@ensolum.com, usantillana@ensolum.com

REMARKS: Incident Number: NAPP2502933606

Cost Center: 2147571001

GFCM: 48605000

Turnaround Time:

48 hr

Thermometer ID #13

Correction Factor: -0.3c

Standard

48 hr

Standard

48 hr

48 hr

48 hr

48 hr

Standard

48 hr

Standard

48 hr

Standard

48 hr

Standard

48 hr

Standard

48 hr

Bacteria (only)

Cool Intact

Yes ☐ No ☐

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Observed Temp. °C 18.5

Corrected Temp. °C 8.12

Cool Intact

Yes ☒ No ☐

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Yes ☒ No ☐

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

CHECKED BY: (Initials)

48

48

48

48

48

48

48

48

Turnaround Time:

48 hr

Thermometer ID #13

Correction Factor: -0.3c

Standard

48 hr

Standard

48 hr

Standard

Standard

48 hr

Standard

48 hr

Standard

48 hr

Standard

48 hr

Standard

Bacteria (only)

Cool Intact

Yes ☐ No ☐

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Yes ☐ No ☐

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Yes ☐ No ☐

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Yes ☐ No ☐

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C



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

March 31, 2025

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 13:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C51558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061-103.89866		

Sample ID: SW 06 0-8' (H251810-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.72	85.9	2.00	4.30	
Toluene*	<0.050	0.050	03/28/2025	ND	1.89	94.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.4	2.00	4.77	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.86	97.6	6.00	4.33	
Total BTX	<0.300	0.300	03/28/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	194	97.2	200	1.00	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	189	94.7	200	0.279	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C51558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061-103.89866		

Sample ID: SW 07 0-8' (H251810-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.72	85.9	2.00	4.30		
Toluene*	<0.050	0.050	03/28/2025	ND	1.89	94.4	2.00	4.12		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.4	2.00	4.77		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.86	97.6	6.00	4.33		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	112	16.0	03/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	194	97.2	200	1.00	
DRO >C10-C28*	<10.0	10.0	03/27/2025	ND	189	94.7	200	0.279	
EXT DRO >C28-C36	<10.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 77.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C51558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061-103.89866		

Sample ID: SW 08 0-8' (H251810-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.72	85.9	2.00	4.30		
Toluene*	<0.050	0.050	03/28/2025	ND	1.89	94.4	2.00	4.12		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.4	2.00	4.77		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.86	97.6	6.00	4.33		
Total BTX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	36000	16.0	03/28/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	194	97.2	200	1.00	
DRO >C10-C28*	1520	10.0	03/27/2025	ND	189	94.7	200	0.279	
EXT DRO >C28-C36	317	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 114 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C51558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061-103.89866		

Sample ID: SW 09 0-8' (H251810-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.72	85.9	2.00	4.30		
Toluene*	<0.050	0.050	03/28/2025	ND	1.89	94.4	2.00	4.12		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.4	2.00	4.77		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.86	97.6	6.00	4.33		
Total BTX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	03/28/2025	ND	416	104	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	194	97.2	200	1.00	
DRO >C10-C28*	54.1	10.0	03/27/2025	ND	189	94.7	200	0.279	
EXT DRO >C28-C36	10.4	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 79.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C51558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061-103.89866		

Sample ID: SW 10 0-8' (H251810-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2025	ND	1.72	85.9	2.00	4.30	
Toluene*	<0.050	0.050	03/28/2025	ND	1.89	94.4	2.00	4.12	
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.4	2.00	4.77	
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.86	97.6	6.00	4.33	
Total BTEX	<0.300	0.300	03/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	19200	16.0	03/28/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	194	97.2	200	1.00	
DRO >C10-C28*	158	10.0	03/27/2025	ND	189	94.7	200	0.279	
EXT DRO >C28-C36	25.7	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/27/2025	Sampling Date:	03/25/2025
Reported:	03/31/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C51558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061-103.89866		

Sample ID: SW 11 0-8' (H251810-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2025	ND	1.72	85.9	2.00	4.30		
Toluene*	<0.050	0.050	03/28/2025	ND	1.89	94.4	2.00	4.12		
Ethylbenzene*	<0.050	0.050	03/28/2025	ND	1.95	97.4	2.00	4.77		
Total Xylenes*	<0.150	0.150	03/28/2025	ND	5.86	97.6	6.00	4.33		
Total BTEX	<0.300	0.300	03/28/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20800	16.0	03/28/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2025	ND	194	97.2	200	1.00	
DRO >C10-C28*	219	10.0	03/27/2025	ND	189	94.7	200	0.279	
EXT DRO >C28-C36	43.0	10.0	03/27/2025	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ben Bell

Address: 601 N Marientfield Street, suite 400

City: Midland State: TX Zip: 79701

Phone #: 989-854-0852

Project #: 03C1558607 Project Owner:

Project Name: James Ranch Unit DI 11 Battery - Spills

Project Location: 32.39061, -103.89866

Sample Name: Uriel Santillana

BILL TO

P.O. #:

Company: XTO Energy

Attn: Colton Brown

Address:

City:

State: NM Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Address: 601 N Marientfield Street, suite 400										P.O. #:											
City: Midland										Company: XTO Energy											
State: TX										Attn: Colton Brown											
Phone #: 989-854-0852										Address:											
Fax #:																					
Project #: 03C1558607										City:											
Project Name: James Ranch Unit DI 11 Battery										State: NM Zip:											
Project Location: 32.39061, -103.89866										Phone #:											
Sample Name: Uriel Santillana										Fax #:											
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING					
										GROUNDWATER											
										WASTEWATER											
										SOIL											
										OIL											
										SLUDGE											
										OTHER :											
										ACID/BASE:											
										ICE / COOL											
										OTHER :											
										DATE											
										TIME											
4251810		SW06		0-8'		C		1		X				3/25/25		1322		X			
1		SW07																X			
2		SW08																X			
3		SW09																X			
4		SW10																X			
5		SW11																X			
6																					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusion 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 interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services furnished by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

Relinquished By:

Date: 8/27/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:



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

May 12, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 05/08/25 13:50.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/08/2025	Sampling Date:	05/05/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 01 C 19' (H252743-01)

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	05/08/2025	ND	2.08	104	2.00	2.71	
Toluene*	<0.050	0.050	05/08/2025	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.18	109	2.00	2.25	
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.44	107	6.00	2.54	
Total BTEX	<0.300	0.300	05/08/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	200	100	200	0.341	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	192	96.1	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/08/2025	Sampling Date:	05/05/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 01 D 25' (H252743-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2025	ND	2.08	104	2.00	2.71		
Toluene*	<0.050	0.050	05/08/2025	ND	2.19	109	2.00	2.39		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.18	109	2.00	2.25		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.44	107	6.00	2.54		
Total BTX	<0.300	0.300	05/08/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	200	100	200	0.341	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	192	96.1	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/08/2025	Sampling Date:	05/05/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 01 E 29' (H252743-03)

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	05/08/2025	ND	2.08	104	2.00	2.71		
Toluene*	<0.050	0.050	05/08/2025	ND	2.19	109	2.00	2.39		
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.18	109	2.00	2.25		
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.44	107	6.00	2.54		
Total BTEX	<0.300	0.300	05/08/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	200	100	200	0.341	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	192	96.1	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 79.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Benjamin Bellill

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

State: TX ZIP: 79701

Phone #: 989-854-0852

Project Owner: XTO Energy, Inc

Project #:

Project Name: James Ranch Unit DI 11 Battery - SPILLS

Project Location: 32.39061, -103.89866

Sampler Name: Alex Ferrell

Lab I.D.

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

MATRIX

PRESERV.

SAMPLING

Sample I.D.

Depth (Feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

PLEASE NOTE: Liability and damages. Cardinal's liability and client's exclusivity remedy for any claim arising whether caused or not, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Inquired By:

Date: 5-8-25

Received By:

Time: 1:350

Date:

Time:

Received By:

Verbal Result:

Yes No

Add'l Phone #:

TMorrissey@ensolum.com, BBellill@ensolum.com, KThomas@ensolum.com

REMARKS: Incident Number: NAPP2502933606

Cost Center:

GFCM:

Turnaround Time: Standard

Observed Temp. °C

Corrected Temp. °C

Sample Condition Cool Intact

CHECKED BY: (Initials)

Thermometer ID

Correction Factor

Bacteria (only) Sample Condition Cool Intact

Observed Temp. °C

Corrected Temp. °C

Yes No

Yes No

Yes No

Yes No

Yes No

FORM-006 R 3.2 10/07/21

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



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

May 12, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 05/08/25 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/08/2025	Sampling Date:	05/05/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 02 C 18' (H252744-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2025	ND	2.08	104	2.00	2.71	
Toluene*	<0.050	0.050	05/08/2025	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.18	109	2.00	2.25	
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.44	107	6.00	2.54	
Total BTX	<0.300	0.300	05/08/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	200	100	200	0.341	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	192	96.1	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.5 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 12/9/2025 3:40:41 PM



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

May 12, 2025

BEN BELILL
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 05/08/25 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/08/2025	Sampling Date:	05/05/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 02 D 20' (H252745-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2025	ND	2.08	104	2.00	2.71	
Toluene*	<0.050	0.050	05/08/2025	ND	2.19	109	2.00	2.39	
Ethylbenzene*	<0.050	0.050	05/08/2025	ND	2.18	109	2.00	2.25	
Total Xylenes*	<0.150	0.150	05/08/2025	ND	6.44	107	6.00	2.54	
Total BTX	<0.300	0.300	05/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/08/2025	ND	200	100	200	0.341	
DRO >C10-C28*	<10.0	10.0	05/08/2025	ND	192	96.1	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	05/08/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

May 13, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 05/09/25 14:36.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 0.5' (H252785-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33	QM-07
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78	
Total BTX	<0.300	0.300	05/12/2025	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	464	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 A 2' (H252785-02)

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	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 B 4' (H252785-03)

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	05/12/2025	ND	1.90	95.0	2.00	6.33	
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 C 6' (H252785-04)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33	
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78	
Total BTX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 D 8' (H252785-05)

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	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 E 10' (H252785-06)

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	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEx	<0.300	0.300	05/12/2025	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	176	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 F 14' (H252785-07)

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	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEX	<0.300	0.300	05/12/2025	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	160	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 G 15' (H252785-08)

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	05/12/2025	ND	1.90	95.0	2.00	6.33	
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 H 16' (H252785-09)

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	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 I 17' (H252785-10)

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	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEx	<0.300	0.300	05/12/2025	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	80.0	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 04 J 20' (H252785-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33	
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78	
Total BTX	<0.300	0.300	05/12/2025	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	16.0	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 99.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/05/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 05 C 6' (H252785-12)

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	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 97.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/05/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 05 D 8' (H252785-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/12/2025	ND	448	112	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	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/05/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 05 E 10' (H252785-14)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33	
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78	
Total BTX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/05/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 05 F 14' (H252785-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/05/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 05 G 15' (H252785-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33	
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 05 H 16' (H252785-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/05/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 05 I 17' (H252785-18)

BTEx 8021B			mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/05/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 05 J 20' (H252785-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33		
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78		
Total BTX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 0.5' (H252785-20)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	1.90	95.0	2.00	6.33	
Toluene*	<0.050	0.050	05/12/2025	ND	2.03	101	2.00	5.90	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.03	102	2.00	5.86	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.45	107	6.00	5.78	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	221	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	202	101	200	0.857	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 A 2' (H252785-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 B 4' (H252785-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 C 6' (H252785-23)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 D 8' (H252785-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 E 10' (H252785-25)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 F 14' (H252785-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 115 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 G 15' (H252785-27)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 H 16' (H252785-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 C 6' (H252785-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEx	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 D 8' (H252785-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEx	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 E 10' (H252785-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 F 13' (H252785-34)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 G 14' (H252785-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEx	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 H 17' (H252785-36)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 I 18' (H252785-37)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 J 19' (H252785-38)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/12/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 K 25' (H252785-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEX	<0.300	0.300	05/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 07 L 29' (H252785-40)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56	
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90	
Total BTX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	212	106	200	2.53	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	220	110	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 0.5' (H252785-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 A 2' (H252785-42)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.15	108	2.00	3.56		
Toluene*	<0.050	0.050	05/12/2025	ND	2.16	108	2.00	3.09		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.10	105	2.00	3.27		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.50	108	6.00	1.90		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 B 4' (H252785-43)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26	QM-07
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65	
Total BTEX	<0.300	0.300	05/12/2025	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	128	16.0	05/12/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 C 6' (H252785-44)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26	
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65	
Total BTX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 D 8' (H252785-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 E 10' (H252785-46)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	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	160	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 F 13' (H252785-47)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	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	96.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 112 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 G 14' (H252785-48)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6		
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5		
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND						

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/08/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 H 16' (H252785-49)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	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	496	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6		
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5		
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND						

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 I 17' (H252785-50)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26	
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65	
Total BTEx	<0.300	0.300	05/12/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	784	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 J 18' (H252785-51)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 K 19' (H252785-52)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 L 25' (H252785-53)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/12/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.0 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 08 M 29' (H252785-54)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6		
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5		
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND						

Surrogate: 1-Chlorooctane 68.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.9 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 0.5' (H252785-55)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	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	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.8 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 A 2' (H252785-56)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/12/2025	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	05/12/2025	ND	222	111	200	14.6		
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5		
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND						

Surrogate: 1-Chlorooctane 89.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.3 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 B 4' (H252785-57)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26	
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/12/2025	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	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.7 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 C 6' (H252785-58)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26	
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/12/2025	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	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 D 8' (H252785-59)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/12/2025	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	05/12/2025	ND	222	111	200	14.6		
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5		
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND						

Surrogate: 1-Chlorooctane 89.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.7 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 E 10' (H252785-60)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26	
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/12/2025	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	05/12/2025	ND	222	111	200	14.6	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	214	107	200	14.5	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 90.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.2 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 F 13' (H252785-61)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26	
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 G 14' (H252785-62)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.00	99.9	2.00	5.26		
Toluene*	<0.050	0.050	05/12/2025	ND	2.28	114	2.00	5.71		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.44	122	2.00	5.57		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	7.35	123	6.00	5.65		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 H 17' (H252785-63)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99	
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 I 18' (H252785-64)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99		
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76		
Total BTEx	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 J 19' (H252785-65)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99		
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 85.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 K 25' (H252785-66)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99		
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 09 L 29' (H252785-67)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99		
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.2 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 0.5' (H252785-68)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99	
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.5 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 A 2' (H252785-69)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99		
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.9 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 B 4' (H252785-70)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99	
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.8 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 C 6' (H252785-71)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99	
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 D 8' (H252785-72)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99		
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 88.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.8 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 E 10' (H252785-73)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99	
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.2 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 F 14' (H252785-74)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99		
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 G 15' (H252785-75)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99		
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76		
Total BTEx	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/12/2025	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	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 H 16' (H252785-76)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99	
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/07/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 I 17' (H252785-77)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99		
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/13/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 10 J 20' (H252785-78)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	2.01	101	2.00	3.99	
Toluene*	<0.050	0.050	05/12/2025	ND	2.20	110	2.00	3.74	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	2.11	106	2.00	2.65	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	2.76	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/12/2025	ND	219	110	200	1.27	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	210	105	200	0.232	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Ben Beilill Address: 601 N Marlenfield Street, Suite 400 City: Midland State: TX Zip: 79701 Phone #: 989-854-0852 Fax #: _____ Project #: 03C1558607 Project Owner: XTO Energy Project Name: James Ranch Unit DI 11 Battery - SPILLS Project Location: 32,39061, -103.89866 Sample Name: Alex Ferrell Fax #: _____										P.O. #: _____ Company: XTO Energy, Inc Attn: Colton Brown Address: 3104 E Greene St City: Carlsbad State: NM Zip: 88220 Phone #: _____		BILL TO ANALYSIS REQUEST	
FOR LAB USE ONLY		LAB I.D.		Sample I.D.		Depth (feet)		Depth (feet)					
1 PH04 0.5 2 PH04A 2 3 PH04B 4 4 PH04C 6 5 PH04D 8 6 PH04E 10 7 PH04F 14 8 PH04G 15 9 PH04H 16 10 PH04I 17		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV.		SAMPLING		DATE TIME					
1 5/16/25 1615 2 5/16/25 1620 3 5/16/25 1620 4 5/16/25 1625 5 5/16/25 1630 6 5/16/25 1630 7 5/16/25 1630 8 5/16/25 1630 9 5/16/25 1630 10 5/16/25 1630		TPH 8015 BTEX 8021 Chloride 4500		Standard Rush		Bacteria (only) Cool Intact Sample Condition Observed Temp. °C Corrected Temp. °C		Turnaround Time: Thermometer ID #1137 Correction Factor: -0.5°C					
Relinquished By: [Signature] Date: 5/16/2025 Time: 1314 Date: 5/16/25 Time: 1434		Received By: [Signature] Date: 5/16/2025 Time: 1314 Date: 5/16/25 Time: 1434		REMARKS: Incident Number: NAPP2502333606 Cost Center: GFCM: 48605000		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: BBellill@ensolum.com, TThomasson@ensolum.com, usantillana@ensolum.com, Aterrell@ensolum.com		Turnaround Time: 48 hr Thermometer ID #1137 Correction Factor: -0.5°C					



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-3

BILL TO							ANALYSIS REQUEST						
Company Name: Ensolum, LLC							P.O. #:						
Project Manager: Ben Bellill							Company: XTO Energy, Inc						
Address: 601 N Marientfield Street, Suite 400							Attn: Colton Brown						
City: Midland							Address: 3104 E Greene St						
State: TX Zip: 79701													
Phone #: 989-854-0852 Fax #:							City: Carlsbad						
Project #: 03C1558607 Project Owner: XTO Energy - SPILLS							State: NM Zip: 88220						
Project Name: James Ranch Unit DI 11 Battery							Phone #:						
Project Location: 32.39061, -103.89866							Fax #:						
Sampler Name: Alex Ferrell													
FOR LAB USE ONLY													
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :
HAS3785	PH06A	2	G1	X									
21	PH06B	4											
23	PH06C	6											
24	PH06D	8											
25	PH06E	10											
26	PH06F	14											
27	PH06G	15											
28	PH06H	16											
29	PH06I	17											
30	PH06J	20											
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Relinquished By:			Date: 5-9-25	Received By:									
Time: 14:30													
Date: 5-9-25													
Time:													
Relinquished By:			Received By: [Signature]										
Delivered By: (Circle One)			Observed Temp.: °C 3.8°C	Sample Condition Cool Intact Yes No	CHECKED BY: (Initials) AF								
Corrected Temp.: °C 4.1°C													
Sampler - UPS - Bus - Other:													
Turnaround Time: 48 hr Rush			Standard	Bacteria (only) Sample Condition Cool Intact Yes No	Observed Temp.: °C								
Thermometer ID #1131110			Cost Center: GFCM: 48605000	Removed from cool box	Corrected Temp.: °C								
REMARKS: Incident Number: NAPP2502933606			NO SAMPLE 5-9-25										
All Results are emailed. Please provide email address: Bbellill@ensolum.com, Tthomson@ensolum.com, Kthomason@ensolum.com			usantillana@ensolum.com, Aterrell@ensolum.com										



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4-8

Company Name: Ensolum, LLC

Project Manager: Ben Beill

Address: 601 N Marientfield Street, Suite 400

City: Midland

Phone #: 989-854-0852

Project #: 03C1558607

Project Name: James Ranch Unit DI 11 Battery

Project Location: 32.39061, -103.89866

Sample Name: Alex Ferrell

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth
(feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy, Inc

Attn: Cotton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

PRESERV:

SAMPLING

Relinquished By:

Date: 5/9/25

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

usantillana@ensolum.com

All Results are emailed. Please provide Email address: BBell@ensolum.com, Mottsey@ensolum.com, KThomason@ensolum.com

REMARKS: Incident Number: NAPP2502933606

Aterrell@ensolum.com

Cost Center: GFCM: 48605000

Turnaround Time: Standard Rush

☒

Bacteria (only)

Sample Condition

Thermometer ID: 4437140

Correction Factor: 0.5C-0.3C

☒

Cool Intact

Observed Temp. °C

Corrected Temp. °C

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

Sample Condition

CHECKED BY: (Initials)

Turnaround Time: Standard Rush

☒

Bacteria (only)

Sample Condition

Observed Temp. °C

Corrected Temp. °C

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

☐ Yes ☐ No

FORM 000-R 3-2-2007/21

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

APD 5025



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Ben Beill Address: 601 N Marientfield Street, Suite 400 City: Midland Phone #: 989-854-0852 State: TX Zip: 79701 Project #: 03C1558607 Project Name: James Ranch Unit DI 11 Battery Project Location: 32.39061, -103.89866 Sample Name: Alex Ferrell										P.O. #: Company: XTO Energy, Inc Attn: Colton Brown Address: 3104 E Greene St City: Carlsbad State: NM Zip: 88220 Phone #: Fax #:										BILL TO										ANALYSIS REQUEST																			
FOR LAB USE ONLY										Lab I.D. Sample I.D. Depth (feet)										Matrix <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER :										Preserv. <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :										Sampling TPH 8015 BTEX 8021 Chloride 4500									
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										41 PH08 0.5 G12 X 5/7/25 1325 X X																																							
										42 PH08A 2 1325 X X																																							
										43 PH08B 4 1330																																							
										44 PH08C 6 1330																																							
										45 PH08D 8 1335																																							
										46 PH08E 10 1340																																							
										47 PH08F 13 1345																																							
										48 PH08G 14 1345																																							
										49 PH08H 16 5/8/25 1350																																							
50 PH08I 17 5/7/25 1350																																																	
Relinquished By: [Signature] Date: 5/8/25 Time: 1:45 PM Received By: [Signature] Date: 5/8/25 Time: 1:45 PM										Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:										Remarks: Incident Number: NAPP2502933606 Cost Center: GFCM: 48605000																													
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Observed Temp. °C: 3-8 Corrected Temp. °C: 4-12 Sample Condition: <input type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No										CHECKED BY: [Signature] Turnaround Time: 48 hr Thermometer ID: #145 Correction Factor: -0.5°C to -3°C Standard: <input checked="" type="checkbox"/> Rush Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No																													



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

6-8

Company Name: Ensolum, LLC

Project Manager: Ben Beill

Address: 601 N Marientfeld Street, Suite 400

City: Midland

Phone #: 989-854-0852

Project #: 03C1558607

Project Name: James Ranch Unit DI 11 Battery

Project Location: 32.39061, -103.89866

Sample Name: Alex Ferrell

P.O. #: Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #: Fax #:

ANALYSIS REQUEST

Project Manager: Ben Beill										P.O. #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Address: 601 N Marientfeld Street, Suite 400										Company: XTO Energy, Inc																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Phone #: 989-854-0852										City: Carlsbad																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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Project Location: 32.39061, -103.89866																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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PLEASE NOTE: Liability and Damages. Cardinal's liability and claims exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 5/9/25

Received By:

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

All Results are emailed. Please provide Email address: Bbeill@ensolum.com, KThomason@ensolum.com

Relinquished By:

Date: 5/9/25

Received By:

REMARKS: Incident Number: NAPP2502933606

Cost Center: GFCM: 48605000

Delivered By: (Circle One)

Observed Temp. °C: 38.2

Sample Condition Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: Standard ☐ Rush ☒

Bacteria (only) Sample Condition Cool Intact ☒ Yes ☐ No

Sampler - UPS - Bus - Other:

Corrected Temp. °C: 4.1

Corrected Temp. °C: 4.1

Thermometer ID: 484371103

† 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

7-8

Company Name: Ensolum, LLC

Project Manager: Ben Bellil

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

Phone #: 989-854-0852

Project #: 03C1558607

Project Name: James Ranch Unit D1 11 Battery

Project Location: 32.39061, -103.89866

Sample Name: Alex Ferrell

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth
(feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

BTEX 8021

Chloride 4500

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

PRESERV.

SAMPLING

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	TPH 8015	BTEX 8021	Chloride 4500										
61	PH09F	13	GA	1	X			X	X											
62	PH09G	14																		
63	PH09H	17																		
64	PH09I	18																		
65	PH09J	19																		
66	PH09K	25																		
67	PH09L	29																		
68	PH10	0.5																		
69	PH10A	2																		
70	PH10B	4																		

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Relinquished By:

Date: 5/9/25

Received By:

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

All Results are emailed. Please provide Email address:

REMARKS: Incident Number: NAPP2502933606

Cost Center:

GFCM: 48605000

Turnaround Time: 48 hr

Thermometer ID #413-#110

Correction Factor: 0.5/0.3

Standard

Bacteria (only)

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

Observed Temp. °C

Corrected Temp. °C

usantillana@ensolum.com

Atterrell@ensolum.com

Atterrell@ensolum.com

Atterrell@ensolum.com

Atterrell@ensolum.com

Atterrell@ensolum.com

Atterrell@ensolum.com

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



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 14, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 05/12/25 9:07.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11 0.5 (H252794-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2025	ND	1.52	75.8	2.00	0.277	
Toluene*	<0.050	0.050	05/12/2025	ND	1.86	92.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	1.98	99.1	2.00	2.10	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	1.97	
Total BTX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11A 2 (H252794-02)

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	05/12/2025	ND	1.52	75.8	2.00	0.277	
Toluene*	<0.050	0.050	05/12/2025	ND	1.86	92.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	1.98	99.1	2.00	2.10	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	1.97	
Total BTEX	<0.300	0.300	05/12/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.6 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11B 4 (H252794-03)

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	05/12/2025	ND	1.52	75.8	2.00	0.277		
Toluene*	<0.050	0.050	05/12/2025	ND	1.86	92.9	2.00	1.04		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	1.98	99.1	2.00	2.10		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	1.97		
Total BTEX	<0.300	0.300	05/12/2025	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	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11C 6 (H252794-04)

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	05/12/2025	ND	1.52	75.8	2.00	0.277		
Toluene*	<0.050	0.050	05/12/2025	ND	1.86	92.9	2.00	1.04		
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	1.98	99.1	2.00	2.10		
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	1.97		
Total BTEX	<0.300	0.300	05/12/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11D 8 (H252794-05)

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	05/12/2025	ND	1.52	75.8	2.00	0.277	
Toluene*	<0.050	0.050	05/12/2025	ND	1.86	92.9	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/12/2025	ND	1.98	99.1	2.00	2.10	
Total Xylenes*	<0.150	0.150	05/12/2025	ND	6.37	106	6.00	1.97	
Total BTEX	<0.300	0.300	05/12/2025	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	32.0	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.6 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11E 10 (H252794-06)

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	05/13/2025	ND	1.66	83.0	2.00	4.53		
Toluene*	<0.050	0.050	05/13/2025	ND	1.99	99.3	2.00	5.07		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.08	104	2.00	5.22		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.22	104	6.00	5.76		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 87.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11F 13 (H252794-07)

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	05/13/2025	ND	1.66	83.0	2.00	4.53		
Toluene*	<0.050	0.050	05/13/2025	ND	1.99	99.3	2.00	5.07		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.08	104	2.00	5.22		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.22	104	6.00	5.76		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11G 14 (H252794-08)

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	05/13/2025	ND	1.66	83.0	2.00	4.53	
Toluene*	<0.050	0.050	05/13/2025	ND	1.99	99.3	2.00	5.07	
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.08	104	2.00	5.22	
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.22	104	6.00	5.76	
Total BTEX	<0.300	0.300	05/13/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.5 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11H 16 (H252794-09)

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	05/13/2025	ND	1.66	83.0	2.00	4.53	
Toluene*	<0.050	0.050	05/13/2025	ND	1.99	99.3	2.00	5.07	
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.08	104	2.00	5.22	
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.22	104	6.00	5.76	
Total BTEX	<0.300	0.300	05/13/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.1 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11I 17 (H252794-10)

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	05/13/2025	ND	1.66	83.0	2.00	4.53		
Toluene*	<0.050	0.050	05/13/2025	ND	1.99	99.3	2.00	5.07		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.08	104	2.00	5.22		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.22	104	6.00	5.76		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 61.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 58.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11J 18 (H252794-11)

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	05/13/2025	ND	1.66	83.0	2.00	4.53		
Toluene*	<0.050	0.050	05/13/2025	ND	1.99	99.3	2.00	5.07		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.08	104	2.00	5.22		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.22	104	6.00	5.76		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.5 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/12/2025	Sampling Date:	05/08/2025
Reported:	05/14/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 11K 19 (H252794-12)

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	05/13/2025	ND	1.66	83.0	2.00	4.53		
Toluene*	<0.050	0.050	05/13/2025	ND	1.99	99.3	2.00	5.07		
Ethylbenzene*	<0.050	0.050	05/13/2025	ND	2.08	104	2.00	5.22		
Total Xylenes*	<0.150	0.150	05/13/2025	ND	6.22	104	6.00	5.76		
Total BTEX	<0.300	0.300	05/13/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/13/2025	ND	448	112	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	05/12/2025	ND	213	106	200	3.08	
DRO >C10-C28*	<10.0	10.0	05/12/2025	ND	205	103	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	05/12/2025	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.9 % 40.6-153

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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

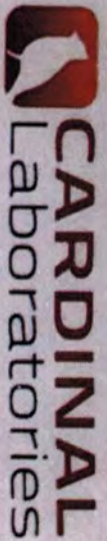
Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-2

Company Name: Ensolum, LLC

Project Manager: Ben Belli

Address: 601 N Marland Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 9898540852

Fax #: Project Owner: XTO Energy

Project #: 03C1558607

City: Carlsbad

Project Name: James Ranch Unit DI 11 Battery

State: NM Zip: 88220

Project Location: 32.39061, -103.89866

Sample Name: Uriel Santillana

Phone #: Fax #:

BILL TO

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	TPH 8015	BTEX 8021	Chloride 4500
Baselay	PH11	0.5	G	1	GROUNDWATER			5/8/25	955	X	X	X
	PH11A	2			WASTEWATER				957			
	PH11B	4			SOIL				1000			
	PH11C	6			OIL				1002			
	PH11D	8			SLUDGE				1007			
	PH11E	10			OTHER:				1009			
	PH11F	13			ACID/BASE:				1135			
	PH11G	14			ICE / COOL				1011			
	PH11H	16			OTHER:				1034			
	PH11I	17							1041			

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Relinquished By:

Date: 5/13/25

Received By:

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

Relinquished By:

Date: 5/13/25

Received By:

REMARKS: Incident Number: NAPP2502933606

Delivered By: (Circle One)

Observed Temp.: 3.8°C

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition

Sampler - UPS - Bus - Other:

Corrected Temp.: 4.1°C

Cool Intact

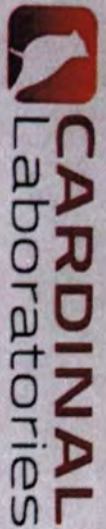
Corrected Temp.: 4.1°C

Thermometer ID #113-4145

Rush

Observed Temp.: 4.1°C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-2

Company Name: Ensolum, LLC

Project Manager: Ben Bellill

Address: 601 N Marland Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 9898540852

Fax #:

Project #: 03C1558607

Project Owner: XTO Energy

Project Name: James Ranch Unit DI 11 Battery

- SPILLS

Project Location: 32.39061, -103.89866

Sample Name: Uriel Santillana

BILL TO

P.O. #:

Company: XTO Energy, Inc

Attn: Colton Brown

Address: 3104 E Greene St

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(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
11	PH11J	18	G	1													
12	PH11K	19	G	1													

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Relinquished By:

Date: 5/18/25

Received By:

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

All Results are emailed. Please provide Email address:

BBellill@ensolum.com, KThomason@ensolum.com

REMARKS: Incident Number: NAPP2502933606

Cost Center: GFCM: 48805000

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C: 8.8°C

Corrected Temp. °C: 4.1°C

Sample Condition

Turnaround Time: 48 hr

Thermometer ID: 4434143

Corrosion Factor: 0.5°C to 0.3°C

Bacteria (only) Sample Condition

Cool Intact

Observed Temp. °C

Corrected Temp. °C

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



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

May 15, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 05/13/25 13:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/13/2025	Sampling Date:	05/06/2025
Reported:	05/15/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 I 17' (H252839-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2025	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	05/14/2025	ND	2.19	109	2.00	0.761	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.15	108	2.00	0.473	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.38	106	6.00	0.268	
Total BTX	<0.300	0.300	05/14/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/14/2025	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2025	ND	225	112	200	2.40	
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	250	125	200	0.848	
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND					

Surrogate: 1-Chlorooctane 122 % 44.4-145

Surrogate: 1-Chlorooctadecane 130 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/13/2025	Sampling Date:	05/06/2025
Reported:	05/15/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 06 J 20' (H252839-02)

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	05/14/2025	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	05/14/2025	ND	2.19	109	2.00	0.761	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.15	108	2.00	0.473	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.38	106	6.00	0.268	
Total BTEX	<0.300	0.300	05/14/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/14/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/13/2025	ND	225	112	200	2.40		
DRO >C10-C28*	<10.0	10.0	05/13/2025	ND	250	125	200	0.848		
EXT DRO >C28-C36	<10.0	10.0	05/13/2025	ND						

Surrogate: 1-Chlorooctane 126 % 44.4-145

Surrogate: 1-Chlorooctadecane 132 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
A-01	CCV failed high biased. All samples ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

June 30, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 06/26/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/25/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: FS 10 2.5' (H253864-01)

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	06/27/2025	ND	2.25	112	2.00	8.33		
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13		
Total BTEX	<0.300	0.300	06/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/27/2025	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	06/27/2025	ND	171	85.3	200	10.9	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	181	90.4	200	9.75	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/25/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	Cool & Intact
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: SW 14 0-2.5' (H253864-02)

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	06/27/2025	ND	2.25	112	2.00	8.33		
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13		
Total BTEX	<0.300	0.300	06/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	06/27/2025	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	06/27/2025	ND	171	85.3	200	10.9	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	181	90.4	200	9.75	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST			
Project Manager: Benjamin Bellill				P.O. #:							
Address: 601 N Marlenfield Street, Suite 400				Company: XTO Energy, Inc							
City: Midland				Attn: Cotton Brown Dale Woodall							
Phone #: 989-854-0852				Address: 3104 E Greene St							
Fax #: 32C1558607				City: Carlsbad							
Project Name: James Ranch Unit D1 11 Battery				State: NM Zip: 88220							
Project Location: 32.39061, -103.89866				Phone #:							
Sampler Name: Uriel Santillana				Fax #:							
FOR LAB USE ONLY											
Lab I.D.		Sample I.D.		Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX	
										GROUNDWATER	
										WASTEWATER	
										SOIL	
										OIL	
										SLUDGE	
										OTHER :	
										ACID/BASE:	
										ICE / COOL	
										OTHER :	
										DATE	
										TIME	
										TPH 8015	
										BTX 8021	
										Chloride 4500	
<div style="position: absolute; right: 0; bottom: 0; transform: rotate(-45deg); font-size: 2em;"> 13 </div>											

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Relinquished By: <i>[Signature]</i>		Date: <i>6/25</i>		Received By: <i>[Signature]</i>		Date: <i>6/25</i>	
Relinquished By: <i>[Signature]</i>		Date: <i>6/25</i>		Received By: <i>[Signature]</i>		Date: <i>6/25</i>	
Delivered By: (Circle One)		Observed Temp.: °C <i>0.1</i>		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Corrected Temp.: °C <i>0.4</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Turnaround Time: <i>48hrs</i>		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) <input checked="" type="checkbox"/>		Sample Condition	
Thermometer ID # <i>113</i>		Correction Factor: <i>-0.1°C</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
REMARKS: Incident Number: NAPP2502933606		Cost Center: 214571001		GFCM: 48605000		Bacteria (only) <input checked="" type="checkbox"/>	
All Results are emailed. Please provide Email address: <i>jsantillana@ensolum.com</i>		Add'l Phone #:		Email Address: <i>jsantillana@ensolum.com</i>		Email Address: <i>jsantillana@ensolum.com</i>	



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

June 30, 2025

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JAMES RANCH UNIT DI 11 BATTERY - SPILLS

Enclosed are the results of analyses for samples received by the laboratory on 06/26/25 12:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/25/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 0.5' (H253872-01)

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	06/27/2025	ND	2.25	112	2.00	8.33		
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13		
Total BTEX	<0.300	0.300	06/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	360	16.0	06/27/2025	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	06/27/2025	ND	171	85.3	200	10.9	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	181	90.4	200	9.75	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/25/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 A 2' (H253872-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2025	ND	2.25	112	2.00	8.33	
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65	
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26	
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13	
Total BTX	<0.300	0.300	06/27/2025	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	400	16.0	06/27/2025	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	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/25/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 B 4' (H253872-03)

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	06/27/2025	ND	2.25	112	2.00	8.33	
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65	
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26	
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13	
Total BTEX	<0.300	0.300	06/27/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/27/2025	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	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/25/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 C 6' (H253872-04)

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	06/27/2025	ND	2.25	112	2.00	8.33	
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65	
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26	
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13	
Total BTEX	<0.300	0.300	06/27/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/27/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/26/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 D 8' (H253872-05)

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	06/27/2025	ND	2.25	112	2.00	8.33		
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13		
Total BTEX	<0.300	0.300	06/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/26/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 E 10' (H253872-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2025	ND	2.25	112	2.00	8.33	
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65	
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26	
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13	
Total BTX	<0.300	0.300	06/27/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 96.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/26/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 F 13' (H253872-07)

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	06/27/2025	ND	2.25	112	2.00	8.33		
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13		
Total BTEX	<0.300	0.300	06/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/26/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 G 14' (H253872-08)

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	06/27/2025	ND	2.25	112	2.00	8.33	
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65	
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26	
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13	
Total BTEX	<0.300	0.300	06/27/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.9 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/26/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 H 16' (H253872-09)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2025	ND	2.25	112	2.00	8.33		
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13		
Total BTX	<0.300	0.300	06/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.7 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/26/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 I 17' (H253872-10)

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	06/27/2025	ND	2.25	112	2.00	8.33	
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65	
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26	
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13	
Total BTEX	<0.300	0.300	06/27/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.1 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/26/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 J 18' (H253872-11)

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	06/27/2025	ND	2.25	112	2.00	8.33		
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13		
Total BTEX	<0.300	0.300	06/27/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/26/2025	Sampling Date:	06/26/2025
Reported:	06/30/2025	Sampling Type:	Soil
Project Name:	JAMES RANCH UNIT DI 11 BATTERY - SF	Sampling Condition:	** (See Notes)
Project Number:	03C1558607	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.39061, -103.89866		

Sample ID: PH 12 K 19' (H253872-12)

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	06/27/2025	ND	2.25	112	2.00	8.33	
Toluene*	<0.050	0.050	06/27/2025	ND	2.22	111	2.00	7.65	
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	2.20	110	2.00	7.26	
Total Xylenes*	<0.150	0.150	06/27/2025	ND	6.54	109	6.00	7.13	
Total BTEx	<0.300	0.300	06/27/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/27/2025	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	202	101	200	1.75	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	189	94.4	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST						
Project Manager: Ben Bell		P.O. #:								
Address: 601 N Marlenfeld Street, Suite 400		Company: XTO Energy, Inc								
City: Midland		Attn: Colton Brown								
Phone #: 989 854 0852		Address: 3104 E Greene St								
State: TX Zip: 79701		City: Carlsbad								
Project #: 03C1558607		State: NM Zip: 88220								
Project Name: Times Beach Unit 01 12 Battery - SPILLS		Phone #:								
Project Location: 32.39062, -103.89866		Fax #:								
Sample Name: Uriel Santillana		PRESERV.		SAMPLING						
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
H253872	PH12	0.5'	G	1	X	6/25/25	11:44	X	X	X
1	PH12A	2'					11:50			
2	PH12B	4'					12:04			
3	PH12C	6'					6/25/25	13:45		
4	PH12D	8'					6/26/25	9:01		
5	PH12E	10'					6/26/25	9:09		
6	PH12F	13'						9:22		
7	PH12G	14'						9:28		
8	PH12H	16'						9:35		
9	PH12I	17'					6/26/25	9:56		
10	PH12J									

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Relinquished By: <i>AB</i>	Date: 6-26-25	Received By: <i>Uriel Santillana</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By:	Time: 12:51	Received By:	All Results are emailed. Please provide Email address: <i>Uriel.Santillana@ensolum.com</i>
Delivered By: (Circle One)	Observed Temp.: 6.3	Sample Condition	Turnaround Time: <i>13hr</i> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp.: 6.6	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID: <i>413 #140</i>
		Checked BY: <i>AB</i>	Correction Factor: <i>-0.5C +0.3C</i>
			Bacteria (only) Sample Condition
			Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
			Observed Temp.: <i>6.6C</i>
			Corrected Temp.: <i>6.3C</i>

REMARKS: Incident Number: *YAP 2502933606*
Cost Center: *214757100*
GFCM: 48805000
3 brought straight to lab from field
2/26/25

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



APPENDIX F

Excavation Guidance Document



August 25, 2025

New Mexico Oil Conservation Division

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

**Re: Excavation Guidance Document
James Ranch Unit DI 11 Battery
Incident Number nAPP2502933606
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) has prepared this document on behalf of XTO Energy, Inc (XTO), to provide guidance on safety precautions related to the proposed excavation near existing production equipment. This guidance applies to only the proposed excavation at the James Ranch Unit DI 11 Battery (Site), for which a Proposed Deferral Area Map is attached as Figure 1.

This document has been prepared in accordance with the Occupational Safety and Health Administration (OSHA) Excavation Standard 29 Code of Federal Regulations (CFR) Part 1926 Sub-part P Section 1926.652(i) and 1926.652(j) and under the consultation of a Registered Professional Engineer (RPE). The document includes a review of the stability of adjacent structures and protection of employees from loose rocks, soil, and equipment and analysis of the following parameters:

- Soil types and conditions leading to cave-ins;
- Stability of engineered facility equipment with requested excavation;
- Protection of employees from materials and equipment that could fall or roll into an excavation; and
- Other hazardous conditions, including confined spaces.

This guidance document must be reviewed before starting any proposed excavation activities and kept on site if excavation activities are occurring. In addition, a copy of the OSHA Excavation Standard 29 CFR Part 1926 Sub-part P will be kept on site.

Review of OSHA Excavation Standards indicates the following guidance for general excavation activities:

- The walls of any excavated areas must be sloped to a maximum 1 horizontal to 1 vertical for Type B soils.
- OSHA Excavation Standard 29 CFR Part 1926 Sub-part P indicates the following:
 - Excavation below the level of the base or footing of any foundation or retaining wall poses a reasonable hazard to employees and should not be conducted without the removal of equipment adjacent to the proposed excavation and/or installation of physical safety measures such as shoring or other protective structures to prevent structural failure of the equipment foundation and to ensure safety to employees working near the proposed excavation.

XTO Energy, Inc
Excavation Guidance Document
James Ranch Unit DI 11 Battery

- Employees shall be protected from excavated or other materials or equipment that could pose a hazard by falling or rolling into any excavation. Protection shall be provided by placing and keeping such materials or equipment at least two feet (.61 m) from the edge of excavations, or by the use of retaining devices that are sufficient to prevent materials or equipment from falling or rolling into excavations, or by a combination of both if necessary.
- When surcharge loads from stored material or equipment, operating equipment, or traffic are present, a Competent Person shall determine the degree to which the actual slope must be reduced below the maximum allowable slope and shall assure that such a reduction is achieved. Surcharge loads from adjacent structures shall be evaluated in accordance with § 1926.651(i).

EXCAVATION ANALYSIS PARAMETERS

The following findings were observed at the Site:

- Type B soil was observed during the Site visit. Type B soil will be utilized for determining excavation slopes and excavation setbacks. A competent person will inspect the site daily and note any changes in soil type during excavation activities. If type A or type C soil is identified, the excavation slope and excavation setback will be modified to account for this change.
- Potential karst features are present near the proposed excavation area per the *Environmental Karst Study Report* dated April 4, 2025.
- The proposed excavation area entails a polygon with maximum dimensions of 138 feet by 66 feet directly adjacent to and beneath production equipment and active pipelines as shown on Figure 2.
- Along the eastern and southern edge of the proposed excavation area are six production pipelines eight feet below ground surface. The production pipelines range in diameter from eight inches to twelve inches. On the southern edge of the proposed excavation area, all pipelines resurface and are on supports and terminate at two skid structures. The skid structures measure 5 feet wide by 16 feet and 20 feet long.
- To the north of the proposed excavation area are two 12-inch production lines and a skid structure measuring 25 feet long by 13 feet wide. The production lines are supported by four-inch diameter circular supports directly into the ground surface for an unknown depth and the skid structure lays directly onto the pad surface.
- To the northeast of the proposed excavation area are two separator structures on a skid constructed with 4-inch square tubing. These separator structures measure 10 feet wide by 20 feet long.

ENGINEER RECOMMENDATIONS

Review of the above-mentioned parameters, OSHA regulations, and Site conditions observed during Site visits were completed and the following RPE recommendations were reached:

- The production pipelines that directly span the proposed excavation area lie beneath the pad surface. The six 8-inch lines running north-south, utilizing Boussineq's strip footing equation, could be undermined with slopes beginning less than 3.5 feet from the center of the outer-most pipe. The two 12-inch surface pipelines running north-south could be undermined with slopes beginning less than 5 feet from the center of the outer-most pipe. Review of the potential pipe stress and deflection during an excavation directly below pipelines indicates the pipelines can experience increased tension and compression causing increased hoop stress. Even if additional supports are installed in the process of excavation, the brief time they remain unsupported can

XTO Energy, Inc
Excavation Guidance Document
James Ranch Unit DI 11 Battery

cause pipe fatigue and eventually pipe failure. It is reasonable to assume that an increase in hoop stress and increase of pipe fatigue on the pipeline system can exceed the engineered parameters and lead to pipeline failure resulting in an additional release. It is not recommended to excavate directly below any of the pipelines.

- Using the southern skid structures bearing capacity in Terzaghi's bearing capacity equation, the bearing capacity would be undermined with slopes of 30 degrees beginning less than 1 times the depth of requested excavation or 1 times the length of the skid, whichever is greater. With the delineation data indicating a potential total depth of 29 feet bgs, the beginning of the slope should be limited to no less than 29 feet from the edge of the southern skid structures footing without substantial supports added to the structure. This assumes cohesive soils with no shallow groundwater.
- Using the northern and northeastern skid structures bearing capacity in Terzaghi's bearing capacity equation, the bearing capacity would be undermined with slopes of 30 degrees beginning less than 1 times the depth of requested excavation or 1 times the length of the skid, whichever is greater. With the delineation data indicating a depth of 29 feet bgs, the beginning of the slope should be limited to no less than 29 feet from the edge of the southern skid structures footing without substantial supports added to the structures. This assumes cohesive soils with no shallow groundwater.
- Stress to the soil below any 4-inch diameter support structure can be estimated by the 2:1 Stress Distribution Model in the proposed excavation area. The beginning of the slope should be limited to no less than 2 feet from the edge of the 4 inch circular tubing footing per above stated OSHA guidelines.
- Excavation above potential karst features decreased the overburden pressures containing the karst feature. Decrease of the overlying soil increases susceptibility to collapse and sinkhole formation. With the production equipment and pipelines adjacent to the proposed excavation extent, excavation near a karst feature poses increased risk of personnel health and equipment stability.

CONCLUSIONS

Based on the dimensions of the requested excavation and presence of adjacent structures, there is inadequate structure support to conduct excavation of the identified impacted soil in a manner that protects both personnel health and equipment stability.

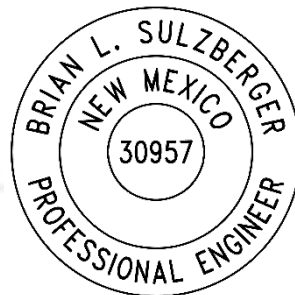
Sincerely,

Ensolum, LLC

Brian Sulzberger, PE
Associate Principal

08/26/2025

Brian Sulzberger



cc: Colton Brown, XTO
Kaylan Dirkx, XTO
New Mexico State Land Office

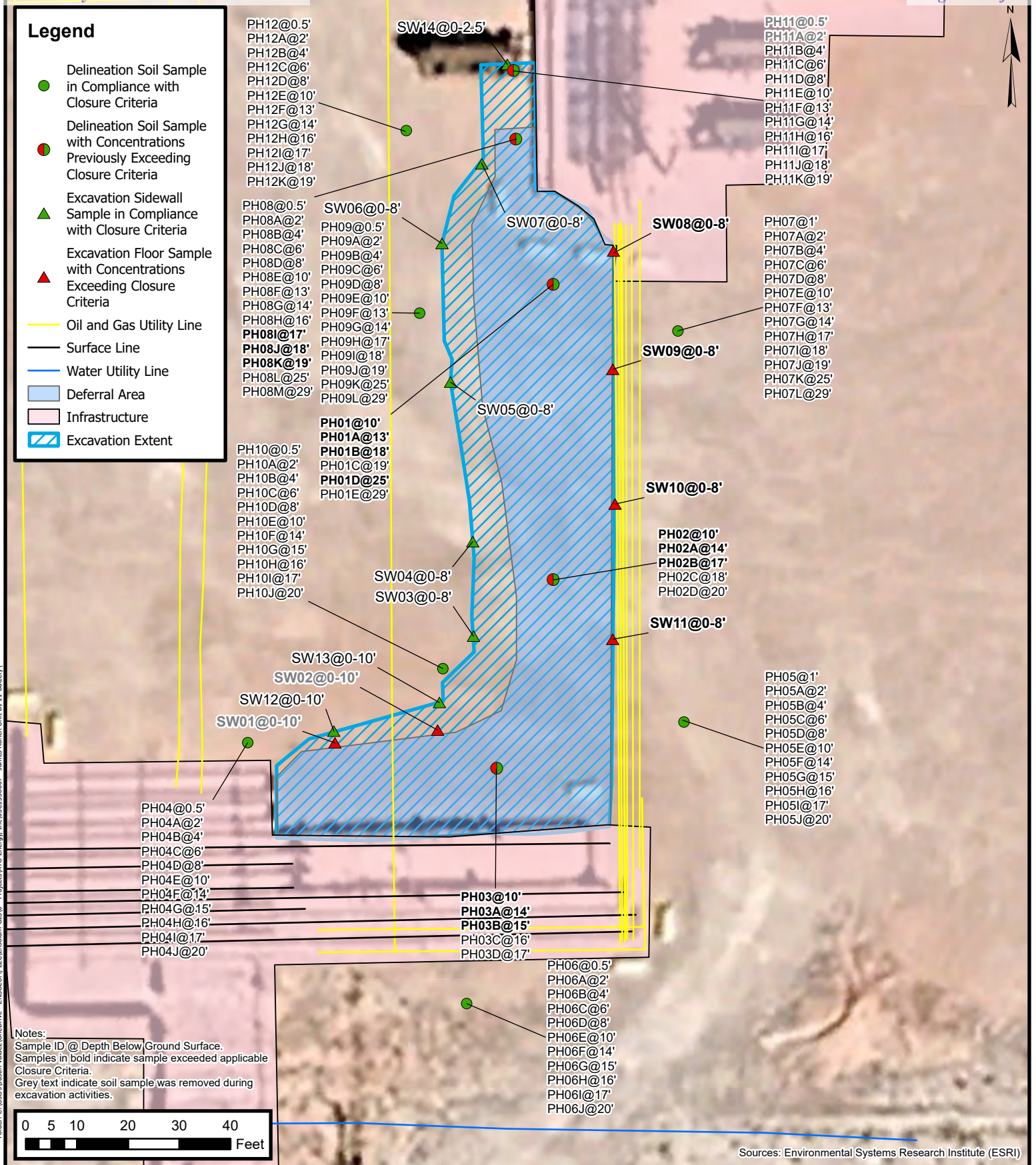
Appendices:

Figure 1 Sample Location Map
Figure 2 Area of Interest Diagram
Appendix A Engineering Models





FIGURES



Proposed Deferral Area

XTO Energy, Inc
 James Ranch Unit DI 11 Battery
 Incident Number: nAPP2502933606
 Unit I & J, Sec 17, T22S, R30E
 Eddy County, New Mexico

FIGURE

1





Appendix A Engineering Models

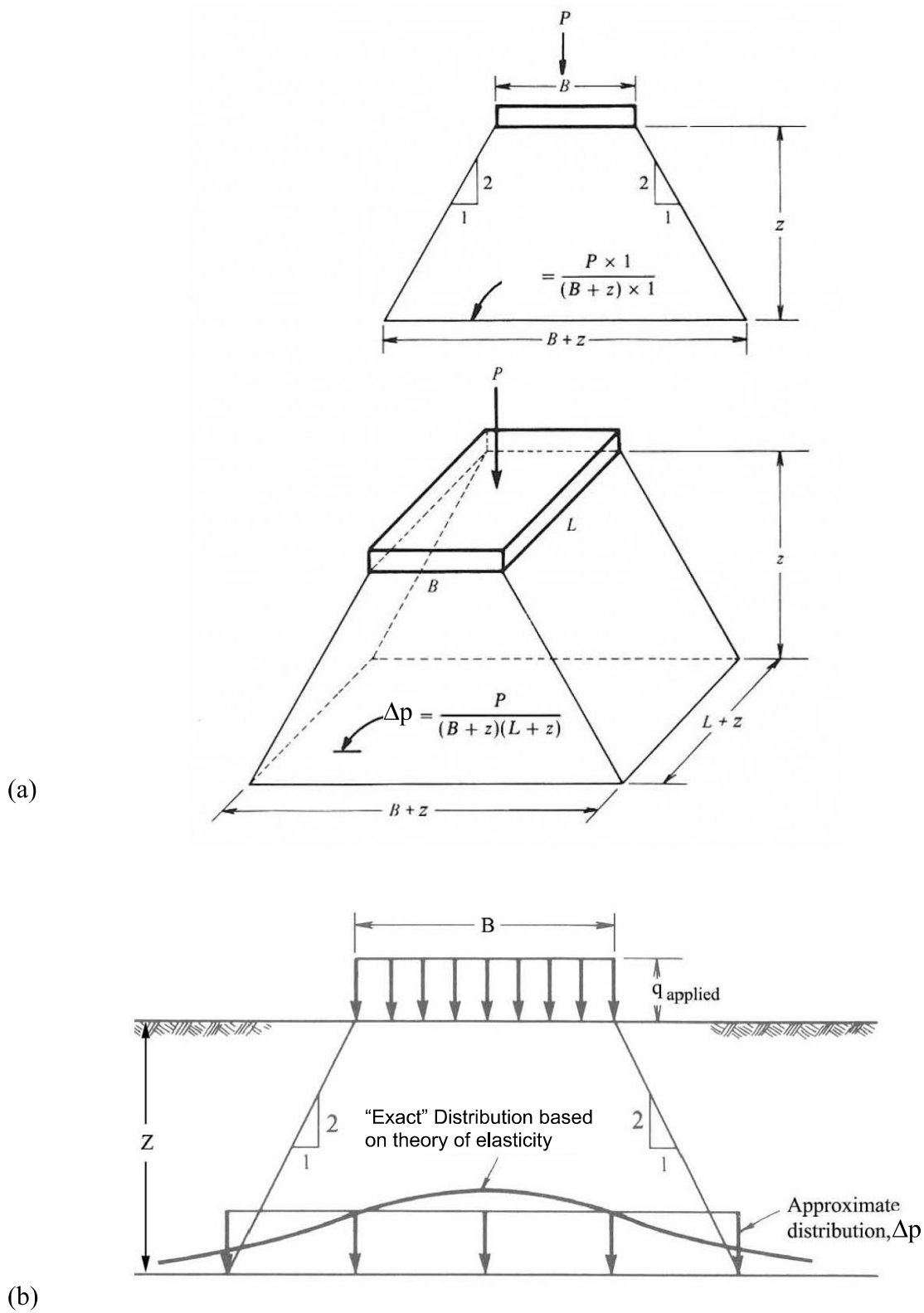


Figure 2-10. Distribution of vertical stress by the 2:1 method (after Perloff and Baron, 1976).

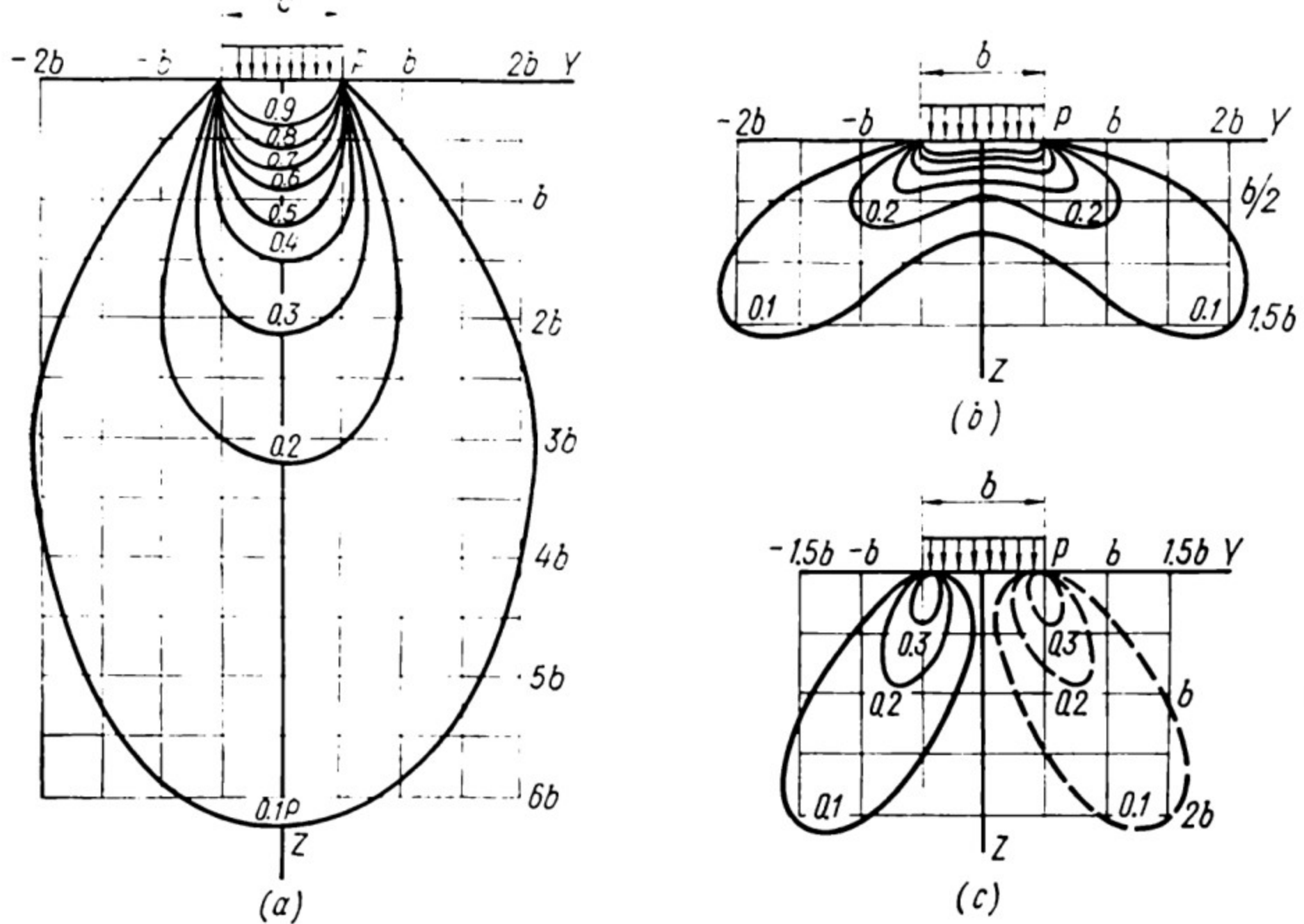
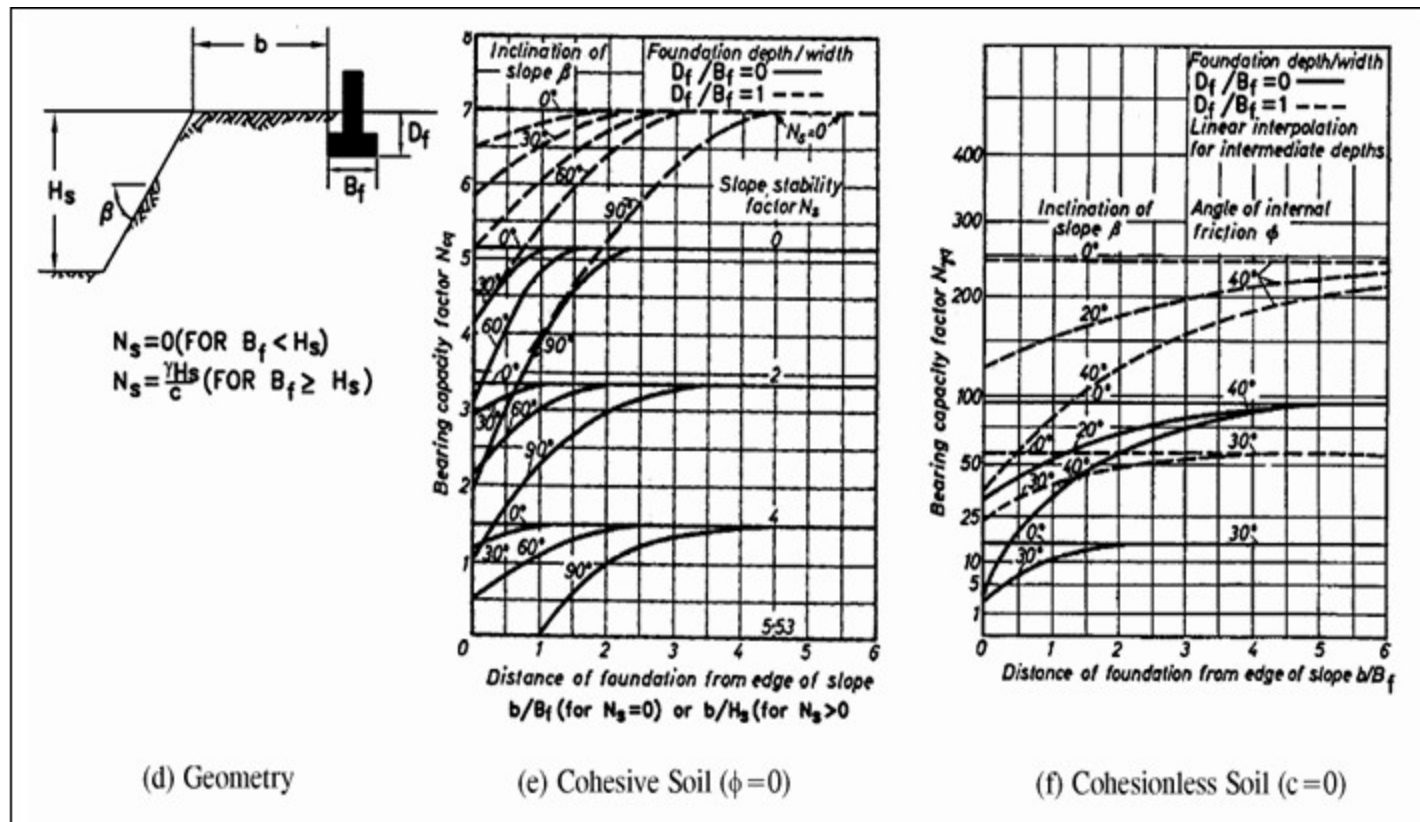


Fig. 49. Lines of equal stresses in a linearly deformable massif for the planar problem

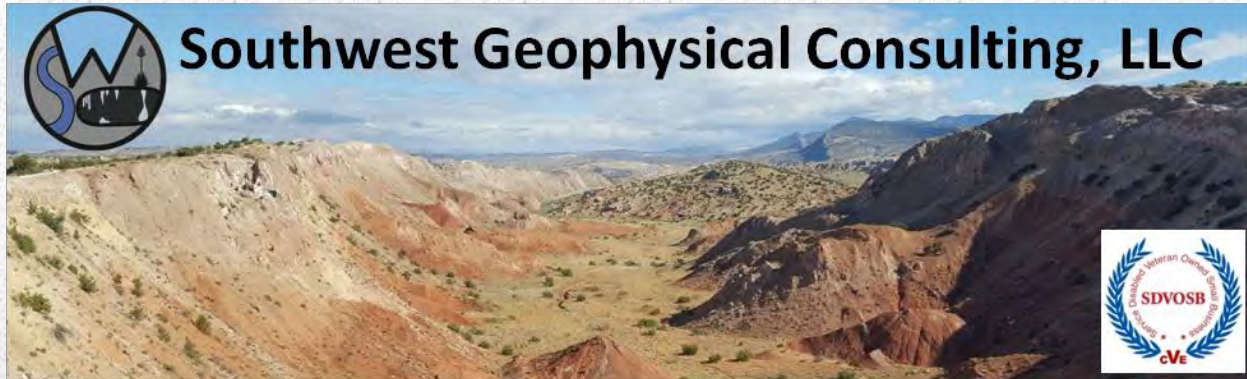
(a) isobars σ_z ; (b) lateral pressure σ_y ; (c) shears $\tau_{z,x}$





APPENDIX G

April 4, 2025, *Environmental Karst Study Report*



Environmental Karst Study Report James Ranch Unit DI 11 Battery Eddy County, New Mexico

**Prepared For:
Ensolum, LLC
3122 National Parks Highway
Carlsbad, NM 88220**

- ☐ Positive within 200 feet of spill delineation boundary
- ☒ Negative within 200 feet of spill delineation boundary
- ☐ Stable ☒ Unstable Ground
- ☒ Karst Monitor Recommended

April 4, 2025

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1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on February 5, 2025, for the purpose of conducting an environmental karst study within an area encompassing the James Ranch Unit DI 11 Battery site (project number 03C1558607, hereinafter termed "JRU11") centered at N 32.390193° W 103.899314°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC^[1]) and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions^[2]) within the spill boundary of the James Ranch Unit DI 11 Battery release using electrical resistivity imaging^[3].

1.2 Summary of Findings

- **No surface karst features exist within the 200-foot (61-meter) zone surrounding the spill delineation boundary.**
- **Two anomalies consistent with air-filled voids are located within the JRU11 resistivity survey area, indicating the zone beneath the geophysical survey may be subject to collapse.**
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted; however, due to the interpreted subsurface voids, this area cannot be considered stable ground.**
- **Employing a Bureau of Land Management approved karst monitor on-site during excavation is recommended.**

1.3 Affected Environment

The JRU11 project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers^[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ)^[5] (**Figure 1**).

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat^[4].

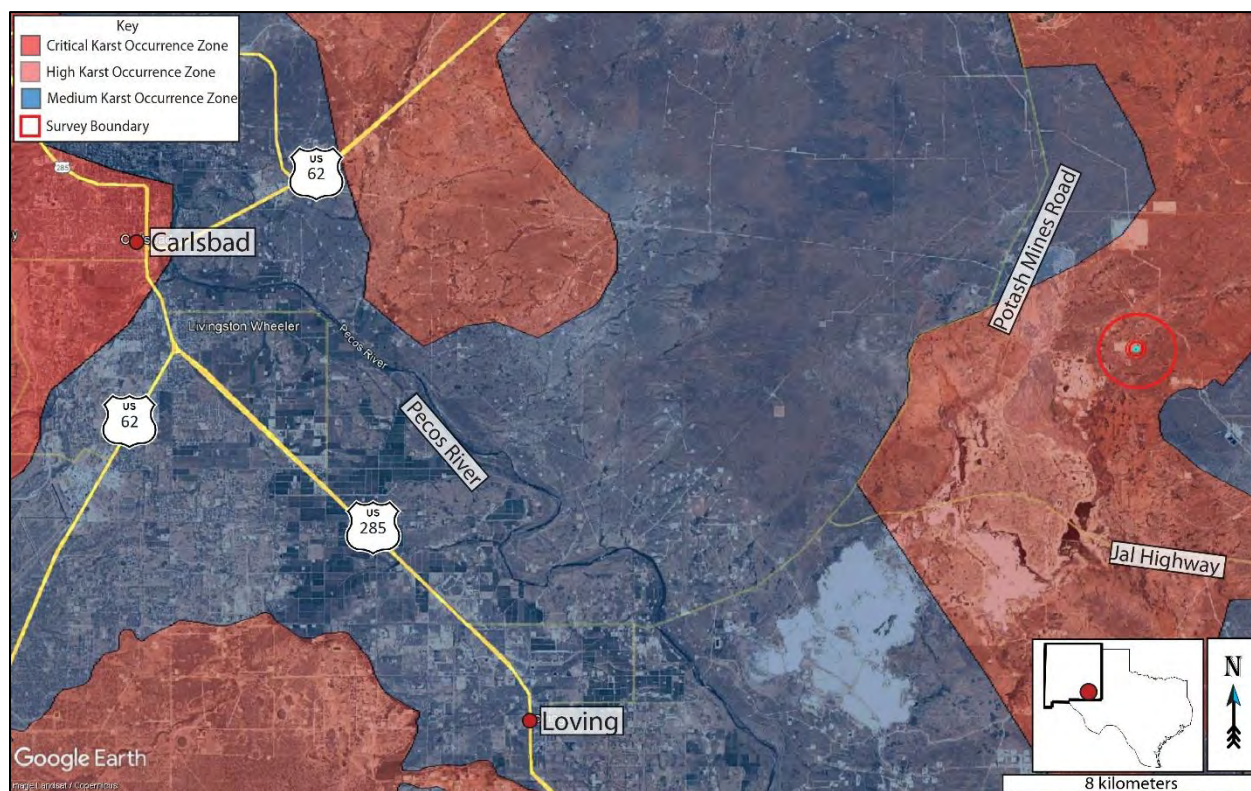


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

Due to the rapidity with which evaporite karst develops, each location within a CKOZ or HKOZ must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Ensolum, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the dates of the field work provided in section **2.3 Description of Survey**. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 31.4 kilometers (19.5 miles) east-southeast of Carlsbad, New Mexico, north of Jal Highway and east of Potash Mines Road. The release area is located within section 17 of NM T22S R30E^[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock^[7] (see section **2.2 Local Geology Summary** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January^[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map^[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an HKOZ^[5] (**Figure 1**) and NMSLO managed land^[10] (**Figure 2**).

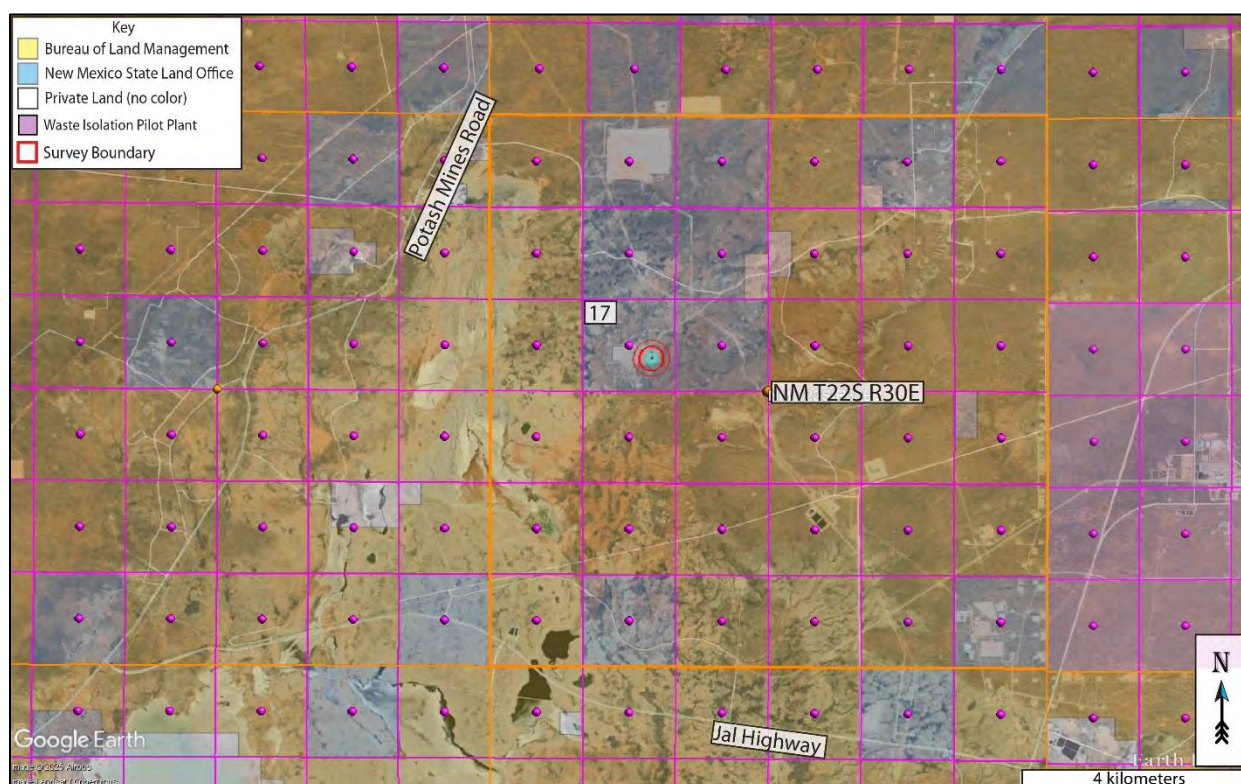


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the JRU11 survey is located east of Nash Draw at an elevation of 950 meters (3,116 feet), \pm 3 meters (9.8 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary eolian deposits (Qe), and piedmont gravels (Qp)^[11] up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)^[12].

The Pru overlies the Permian Salado Formation (Psl – not shown), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface^[12]. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation^[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale^[14] and the Digital Geologic Map of New Mexico in ARC/INFO Format^[11].

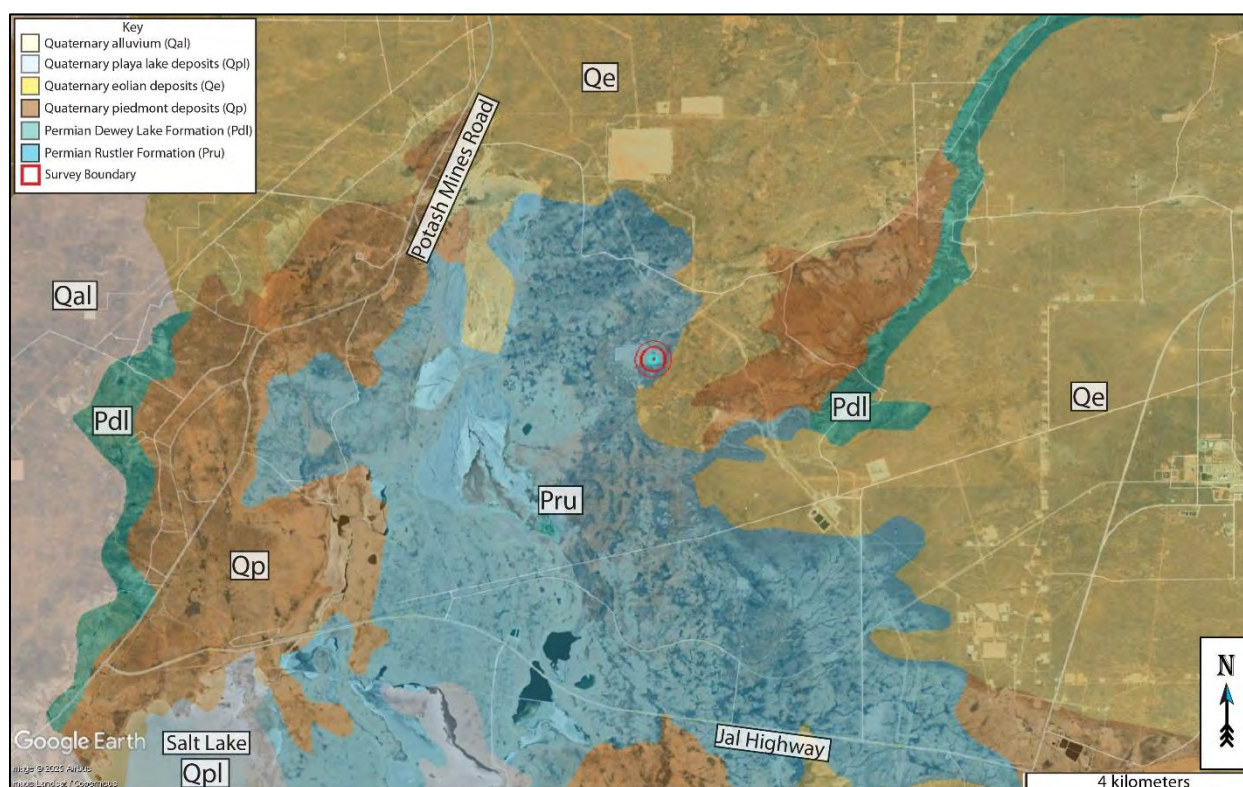


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Inventory

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides aerial karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The aerial karst survey includes a surface karst desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance^[1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated April 2, 2023 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated March 20, 2025^[15]; the Tower Hill South, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no previously recorded karst features within the 305-meter survey boundary.

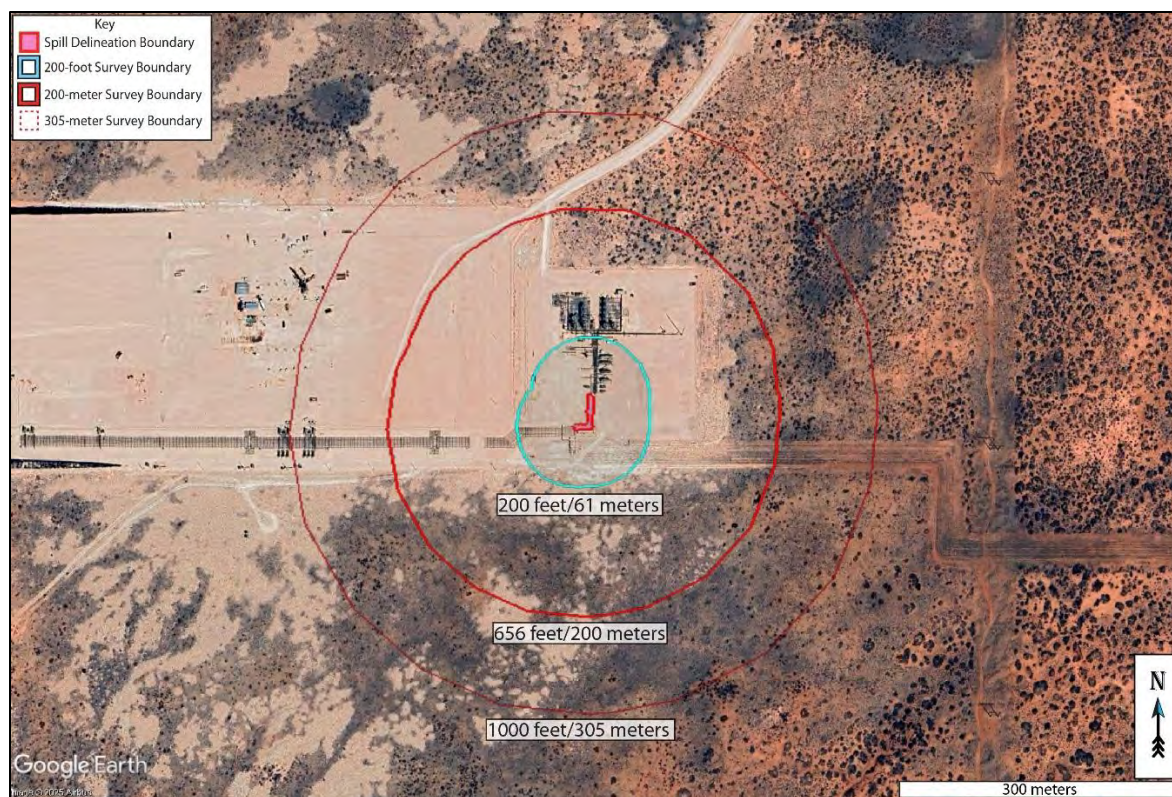


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: April 2, 2023. Datum: WGS-84.

Aerial karst surveys are conducted at low elevation within 200 meters of the spill delineation boundary^[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report^[16].

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on March 10, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Kat Knight of Southwest Geophysical Consulting on April 4, 2025.

2.3.2 Geophysical Survey

For this survey, an Advanced Geosciences Inc. (AGI) SuperSting™ Wifi R8 with a multi-electrode switchbox, a 42-electrode array (line one) and a 56-electrode array (line two), both with 40-centimeter-long electrodes, and a tablet controller were used to image the subsurface. This survey consisted of two resistivity lines in a dipole-dipole strong-gradient configuration; line one is laid out south to north while line two is laid out west to east. Line one consisted of 42 electrodes at 5-meter spacing, resulting in a 205-meter-long array. Line two consisted of 56 electrodes at 5-meter spacing, resulting in a 275-meter-long array (**Figure 5, Table 1**). Preconfigured command files were used to run the data collection (DDSG42 and DDSG56). These electrode configurations provided a depth of investigation of 44 meters (145 feet) for line one and 64 meters (210 feet) for line two, and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 10 to 15 meters (33 to 49 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.

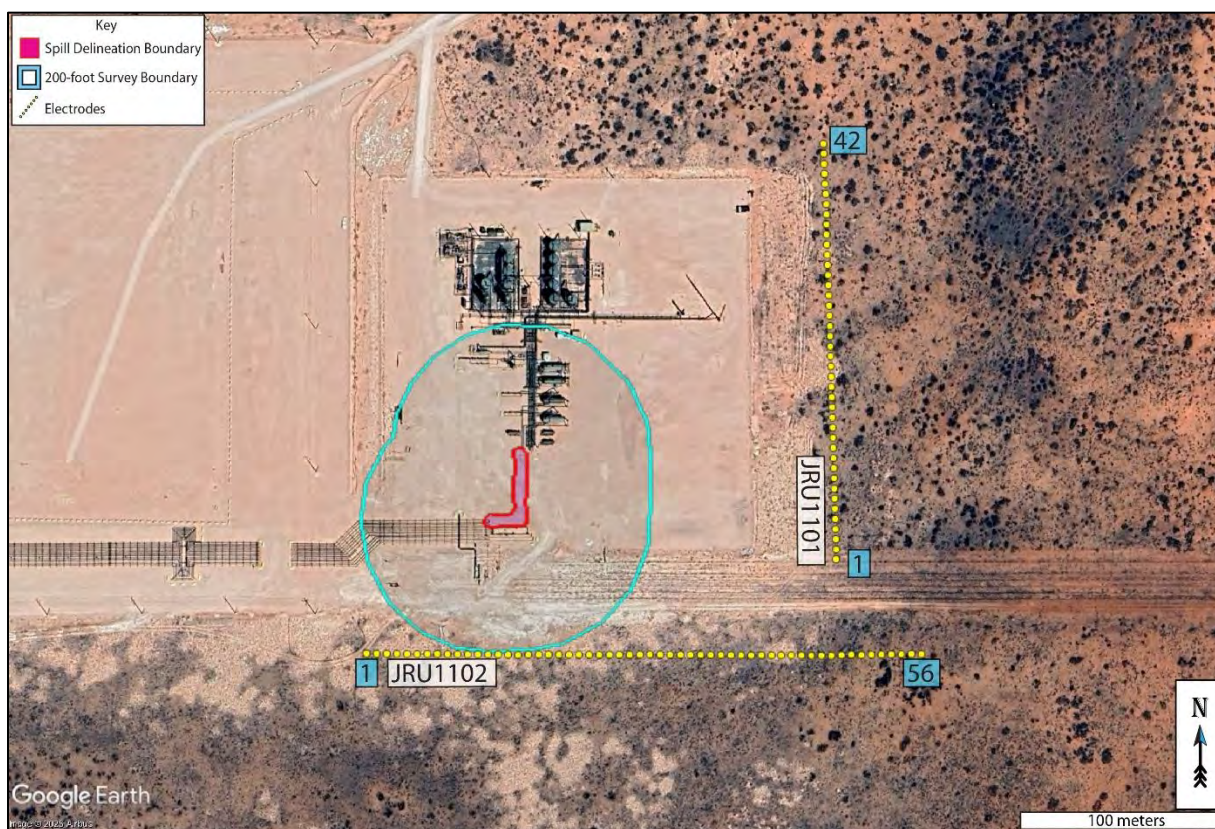


Figure 5: Geophysical survey overview. Two survey lines were conducted with 43 and 56 electrodes respectively, each at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: April 2, 2023. Image datum: WGS-84.

Table 1 provides basic line data. Detailed information including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files JRU11_ERI_Points.xlsx and ENS-004-20250205_JRU11_Data_Files.kmz.

File Name:	Completed By:	Date:
JRU1101.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Michael Jones – Field Geologist	4/7/2025
JRU1102.kmz		

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of “stable” or “unstable” ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was “average apparent resistivity” and a default inversion setting of “surface,” with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω -m) and a max apparent resistivity set to 100,000 Ω -m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 k Ω -m Min Apparent Resistivity = 0.1 Ω -m

Note: Raw data files (.stg files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .stg files) are available upon request.

All field work, including setup, stow, and travel, was completed by Garrett Jorgensen Olague, Britt Bommer, and Michael Jones on April 7, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features within the 200-foot (61-meter)^[1] survey area surrounding the spill delineation boundary (Figure 6).

One recognized surface karst feature is located within the 305-meter survey boundary, but outside of the 200-meter aerial karst survey boundary (Figure 6, Table 3). Recognized surface karst features are features that are positively identified in either satellite or aerial imagery as karst features and the features have been visited by a qualified karst professional in the field and fully identified.

No springs exist within the 305-meter survey boundary (Figure 6).

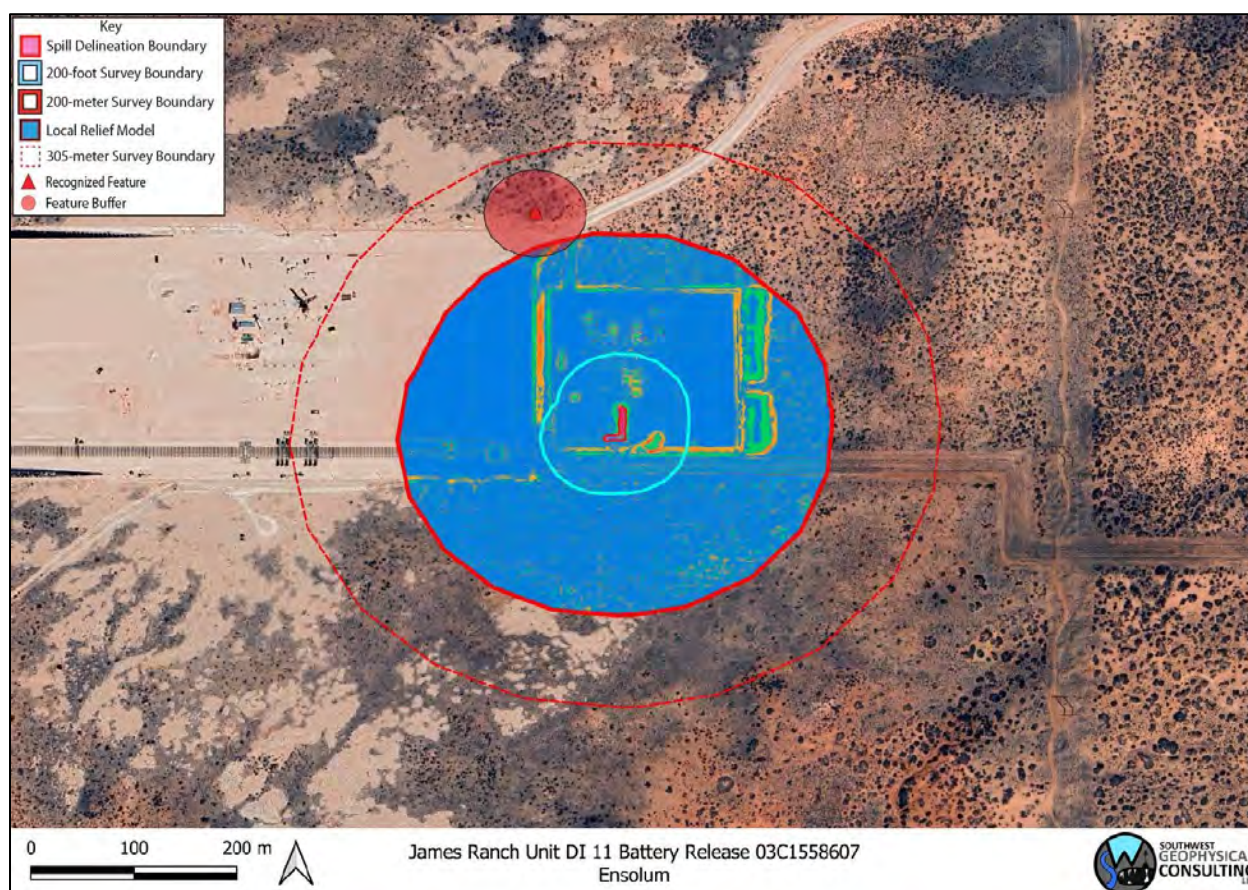


Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: March 20, 2023. Image datum: WGS-84.

Caution should be exercised while operating in or around all karst-related features due to the possibility of near-surface voids. Employing a BLM-CFO approved karst monitor on site during these activities is recommended.

Table 3 contains a list of features identified during the aerial karst survey and subsequent imagery analysis. Each feature is identified with a feature identification number (Feature ID), the type of feature, estimated size (in meters), recommended buffer (in meters), the likelihood of this feature being a surface karst feature (modifiers H/M for high or medium likelihood, V for field verified), and its location in WGS-84/UTM-13 (EPSG: 32613).

Table 3: Surface Karst Feature Data Table

KF Status	Feature ID	Type	Size (m)	Buffer (m)	Mod	Easting	Northing
RKF	250408-D01	Cover-collapse sinkhole	1.8	50	V	603436.688	3584457.195

NOTE: Location data provided in WGS-84/UTM 13N. RKF – recognized karst feature.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 7**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a well-layered geologic system with resistivities between 20 and 7,000 Ohm-m (**Figure 7**). Two high-resistivity anomalies are present, one on each line. These anomalies have resistivities of 21,426 and 40,473 Ohm-m, respectively. Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

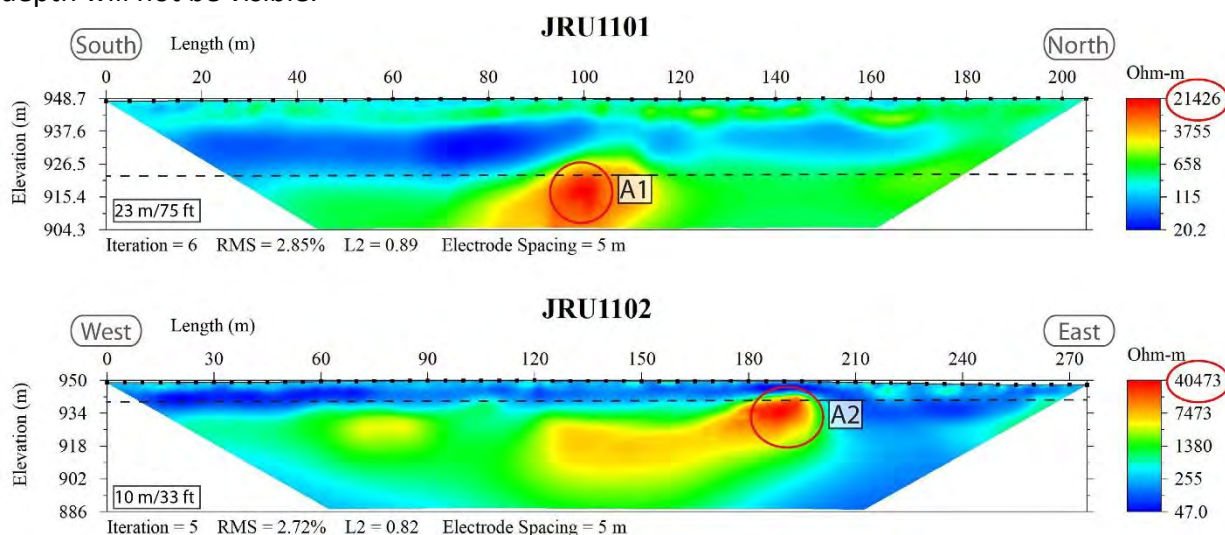


Figure 7: 2D inverted resistivity sections. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative and that the two images have different lengths (along the top) and depths (noted on the left side). The dashed black line indicates the depth from surface to the top of the anomaly.

Table 4 contains a list of anomalies identified during the geophysical survey and subsequent data analysis. Each anomaly is identified with a feature identification number (Feature ID), the type of feature (as interpreted), estimated size (in meters), recommended buffer (in meters), estimated depth from the surface (in meters), feature status modifiers (R for resistivity anomaly, V for field verified), and its location in WGS-84/UTM-13 (EPSG: 32613).

Table 4: Subsurface Anomaly Data Table

KF Status	Feature ID	Type	Size (m)	Buffer (m)	Mod	Depth	Easting	Northing
PKF	250410-A01	Possible subsurface void	5	15	R	23 meters	603675.468	3584284.105
PKF	250410-A02	Possible subsurface void	10	20	R	10 meters	603638.396	3584137.571

NOTE: Location data provided in WGS-84/UTM 13N. PKF – possible karst feature.

4.0 DISCUSSION

One recognized surface karst feature (**Figure 6, Table 3**) and two anomalies consistent with air-filled subsurface voids are found within the JRU11 survey area (**Figure 7, Figure 8** and **Table 4**) indicating karst development in the area. Small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may also be present. **NOTE:** the depth-to-diameter ratio of 250410-A02 indicates it may be unstable, and should be avoided by 20 meters for safety^[17].

Slightly higher-than-average resistivity areas less than 10 meters beneath the surface are interpreted as dry caliche or gypsite soils. Due to their low resistivity values when compared with significant subsurface voids, these features should not be a concern during remediation efforts. Areas of moderate resistivity (yellows, and greens) near the surface are interpreted as dry gypsite soils and gypsum bedrock of the Rustler Formation^[18] (**Figure 7, Figure 8**).

The low-resistivity areas between 20 to 100 Ohm-m are interpreted as a layer of either clays and halite lenses or moist or saturated layers within the Rustler Formation (**Figure 7**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods. We recommend drilling one or both of the anomalies to verify our interpretations before using this information for remediation planning purposes.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities that require excavation below four feet in depth is recommended.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5– 3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

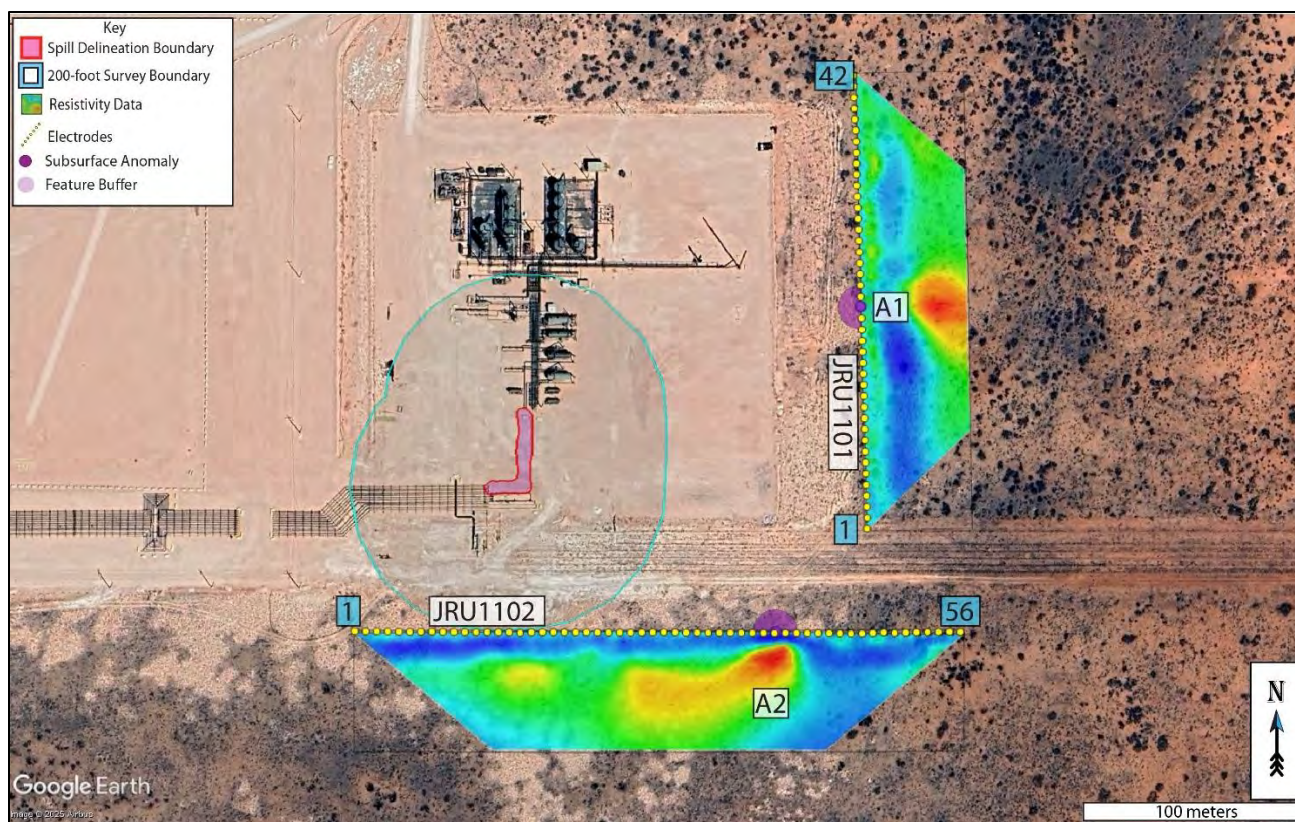


Figure 8: Data overlay. Colored trapezoids are the 2D inverted resistivity line. Background image credit: Google Earth. Image date: April 2, 2023.

5.0 SUMMARY

- **The JRU11 survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- One recognized surface karst feature is located outside of the 200-meter survey boundary, but within the 305-meter (1,000 foot) survey boundary.
- **Two subsurface anomalies interpreted as large voids or related karst features that may present a danger to equipment operators are located within the survey area.**
- **Geophysical interpretations should be field verified by geotechnical methods prior to using this information for remediation planning.**
- **The depth to diameter ratio of 250410-A02 indicates it may be unstable, and should be avoided by 20 meters for safety.**
- Intercepting a void during remediation efforts to a depth of four feet is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted; however, the presence of anomalies interpreted as subsurface voids may indicate unstable ground.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site is recommended.

6.0 DISCLOSURE STATEMENT

High karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports commissioned at the request of the land manager should be submitted to:

BLM-CFO: blm_nm_karst@blm.gov

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

7.0 REFERENCES

- 1 Division, O. C. *Title 19, Chapter 15, Part 29* (Oil Conservation Division, 2018).
- 2 NMSLO. (ed Oil Conservation Division) (New Mexico State Land Office, Santa Fe, NM, 2018).
- 3 Decker, D. & Jorgensen, G. L. *Environmental Karst Surveys White Paper* (Southwest Geophysical Consulting, LLC, 2024).
- 4 Goodbar, J. R. Vol. BLM Management Handbook H-8380-1 (ed Carlsbad Field Office) 59 (Bureau of Land Management, Denver, CO, 2015).
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8.0 GLOSSARY OF TERMS

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω -m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation

PdI	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation
pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed," meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG

Chief Executive Officer, Principal Geologist

Southwest Geophysical Consulting, LLC

5117 Fairfax Dr. NW

Albuquerque, NM 87114

dave@swgeophys.com

(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ENS-006B-20250205 entitled, “Environmental Karst Study Report, James Ranch Unit DI 11 Battery, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section **2.3 Description of Survey**.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, April 10, 2025.



David D. Decker
PhD, CPG-12123



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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 500936

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 500936
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2502933606
Incident Name	NAPP2502933606 JAMES RANCH UNIT DI 11 BATTERY @ 30-015-49041
Incident Type	Other
Incident Status	Deferral Request Received
Incident Well	[30-015-49041] JAMES RANCH UNIT DI 11 EKALAKA SL #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	JAMES RANCH UNIT DI 11 BATTERY
Date Release Discovered	01/28/2025
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Other (Specify) Crude Oil Released: 60 BBL Recovered: 59 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Other (Specify) Produced Water Released: 1,388 BBL Recovered: 1,371 BBL Lost: 17 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Corrosion Other (Specify) Natural Gas Vented Released: 189 MCF Recovered: 0 MCF Lost: 189 MCF.
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)	Release from a bulk line

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QUESTIONS, Page 2

Action 500936

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
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	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/02/2025
--	--

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QUESTIONS, Page 3

Action 500936

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 500936
Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)	

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (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 ½ and 1 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
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	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	9600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4245
GRO+DRO (EPA SW-846 Method 8015M)	3634
BTEX (EPA SW-846 Method 8021B or 8260B)	2.9
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	03/13/2025
On what date will (or did) the final sampling or liner inspection occur	06/25/2025
On what date will (or was) the remediation complete(d)	06/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	3700
What is the estimated volume (in cubic yards) that will be reclaimed	1300
What is the estimated surface area (in square feet) that will be remediated	3700
What is the estimated volume (in cubic yards) that will be remediated	1300
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 500936

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 500936
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/02/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Action 500936

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 500936
	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	"buried pipelines, electrical lines, surface pipelines, production equipment, production equipment footings and supports, separators, light pole. Removing such equipment would cause health and safety hazards for all onsite personnel and potentially cause an additional release. "
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	3700
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	1300
<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	fAPP2123053374 JAMES RANCH UNIT DI 11
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: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/02/2025

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Action 500936

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 500936
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	477735
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/27/2025
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	4000

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	No
--	----

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CONDITIONS

Action 500936

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 500936
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Deferral approved. Deferral of PH01, PH02, PH03, PH08, SW08, SW09, SW10 and SW11 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	12/9/2025