



December 26, 2025

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

**Re: Deferral Request**  
**Nash Deep East TB**  
**Incident Number nAPP2523829584**  
**Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Deferral Request* to document assessment, delineation, excavation, and soil sampling activities at the Nash Deep East TB (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil. Based on field observations and soil sample laboratory analytical results, XTO is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2523829584 until the Site is reconstructed, and/or the well pad is abandoned.

## **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit P, Section 18, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.299313°, -103.913751°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 25, 2025, failure of a Lease Automatic Custody Transfer (LACT) unit discharge coupling resulted in the release of approximately 7 barrels (bbls) of crude oil onto the surface of the well pad and around active production equipment, lined containments, electrical panels, and process piping. In addition, the release caused overspray of the crude oil on the well pad and surrounding equipment. A vacuum truck was immediately dispatched to the Site and recovered approximately 5 bbls of released fluids. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Notification of Release (NOR) and an Initial C-141 Application (C-141) on August 26, 2025. The release was assigned Incident Number nAPP2523829584.

## **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.

Depth to groundwater at the Site is estimated to be greater than 51 feet below ground surface (bgs) and less than 100 feet bgs based on nearby depth to groundwater data. The nearest groundwater well is well 321742103552601, permitted by the United States Geological Survey (USGS), and is located approximately 0.68 miles southwest of the Site. The most recent depth to groundwater measurement is

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66.1 feet bgs and was measured on May 6, 1993. The total depth of the well is 100 bgs. The well log is provided in Appendix A. All wells used to evaluate depth to groundwater are presented on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash located approximately 475 feet west 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). Potential Site receptors are identified on Figure 1.

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

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

## DELINEATION ACTIVITIES

Between September 2 and September 26, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. The release occurred in a small containment on the south side of the infrastructure resulting in pooling between the lined containment of the LACT unit and a larger lined containment housing multiple tanks. Overspray from the release extended into the lined containment to the north of the point-of-release (POR) and on the pad surface. Twelve delineation soil samples (SS01 through SS12) were collected from the pad surface. Delineation soil samples SS01 through SS03 were collected within the release extent. Delineation soil samples SS04 through SS12 were collected outside of the release extent to define the lateral edge of the release. Three boreholes, BH01 through BH03, were advanced via hand auger to terminal depths ranging from 1-foot to 4.5 feet bgs to vertically delineate within the release extent. Discrete delineation soil samples were collected from each borehole at depths ranging from 0.5 feet to 4.5 feet bgs. The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2. Photographic documentation was collected, and a photographic log is included in Appendix B. Field screening results and observations from all boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico or Eurofins Environmental Testing (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500 or EPA Method 300.0.

Laboratory analytical results from delineation soil samples SS01 through SS03 indicated chloride, BTEX, and/or TPH concentrations exceeded the Closure Criteria. Soil samples collected outside of the release

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extent (SS04 through SS12) indicated COC concentrations were in compliance with the Closure Criteria and successfully defined the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results, excavation of impacted soil appeared warranted.

## EXCAVATION AND SOIL SAMPLING ACTIVITIES

On September 25, 2025, Ensolum personnel returned to the Site to complete sampling activities following surface scrape and excavation activities. Soil was excavated to the maximum extent practicable (MEP) with heavy equipment and hand shovels in the accessible areas. XTO safety policy restricts soil disturbing activities within a 2-foot radius of any on-site, active production equipment. Following the removal of accessible impacted soil, 5-point composite confirmation soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. Confirmation soil samples FS01 through FS05 were collected from the floor of the excavation at depths ranging from 0.5 feet to 4 feet bgs and SW01 through SW04 were collected from the sidewalls of the excavation at depths ranging from ground surface to 4 feet bgs. Confirmation soil samples CS01 through CS06 were collected from the accessible overspray area from the pad surface. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples were handled and analyzed in the same manner as described above. All confirmation soil sample locations are depicted on Figure 3.

The total of the excavation extents measured approximately 915 square feet. In addition, approximately 2,100 square feet of surface scraping was completed. A total of approximately 75 cubic yards of impacted soil was removed during excavation and surface scraping activities and was properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico.

The release and overspray extent directly overlays a previously approved deferral area. Incident Number nAPP2327146621 occurred in September 2023 with approximately 600 cubic yards of chloride impacted soil remaining in place. The remaining impacted soil will be removed during any major facility reconstruction or at the time of pad reclamation.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor soil samples FS01 through FS05, with the exception of FS02, indicated BTEX, TPH, and/or chloride concentrations exceed the Closure Criteria. Excavation sidewall soil samples SW02 through SW04 indicated BTEX, TPH, and/or chloride concentrations exceed the Closure Criteria. Excavation soil samples FS02 and SW01 indicated all COCs were in compliance with the Closure Criteria. Confirmation soil samples CS01, CS02, and CS06 indicated chloride concentrations exceed the Closure Criteria. Confirmation soil samples CS03 through CS05 indicated all COCs were in compliance with Closure Criteria. Laboratory analytical results are summarized on Table 1, and the complete laboratory analytical reports are included in Appendix D.

## LINED CONTAINMENT INSPECTION ACTIVITIES

A lined containment inspection notification (C-141L) was submitted to the NMOCD via the web portal on December 5, 2025. Both steel wall lined containments, the LACT unit containment and larger tank battery containment, were cleaned of all debris and power washed and a liner integrity inspection was conducted by Ensolum personnel immediately after on December 9, 2025. Pooling fresh water is visible in the photographs due to the inspection being conducted immediately following cleaning activities, but all floor and wall liner surfaces were in clear view for inspection. The lined containments were inspected, and it was determined that the liners were operating as designed. Upon inspection, no rips, tears, holes, or damage was observed. The liners were determined to be operating as designed. Photographic documentation of the inspection is included in Appendix B.

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## DEFERRAL REQUEST

Due to active production equipment, lined containments, electrical panels, and process piping present in the area, the remaining impacted soil, as indicated in the areas of sample locations CS01, CS02, CS06, FS01, FS03 through FS05, and SW02 through SW04, could not be removed. All accessible impacted soil was excavated to the MEP. The estimated area of remaining impacted soil measures approximately 3,175 square feet, with an estimated 200 cubic yards, assuming an average maximum depth of 2 feet bgs. The impacted soil is limited to the area beneath active production equipment and process piping where remediation would require a major facility deconstruction. The requested deferral area has been vertically defined by soil samples BH01 through BH03 and laterally defined by SS04 through SS12. The requested area of deferral and all delineation and excavation soil samples are depicted on Figure 4.

XTO does not believe deferment will result in imminent risk to human health, the environment, or groundwater. The entirety of the release remained on pad, and the eastern portion of the release extent directly overlays a previously approved deferral extent. Based on the presence of active production equipment, lined containments, electrical panels, and process piping within the release area and the complete lateral and vertical definition of impacted soil remaining in place, XTO requests deferral of final remediation for Incident Number nAPP2523829584 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](mailto:tmorrissey@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Tracy Hillard  
Project Engineer



Tacoma Morrissey  
Associate Principal

cc: Robert Woodall, XTO  
Richard Kotzur, XTO  
BLM

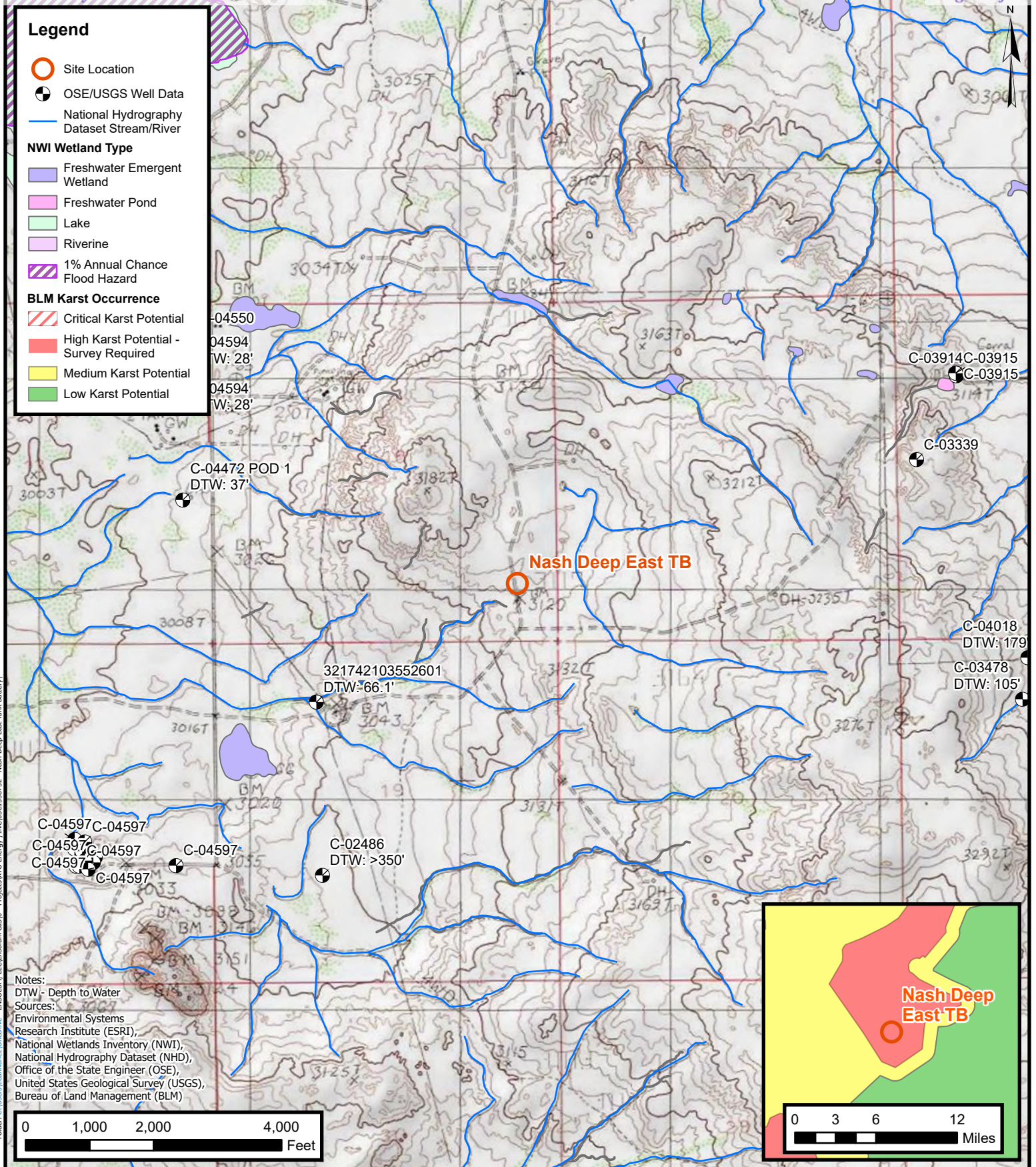
### Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Confirmation Soil Sample Locations
Figure 4	Area of Requested Deferral
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	Spill Volume Calculation



FIGURES





## Site Receptor Map

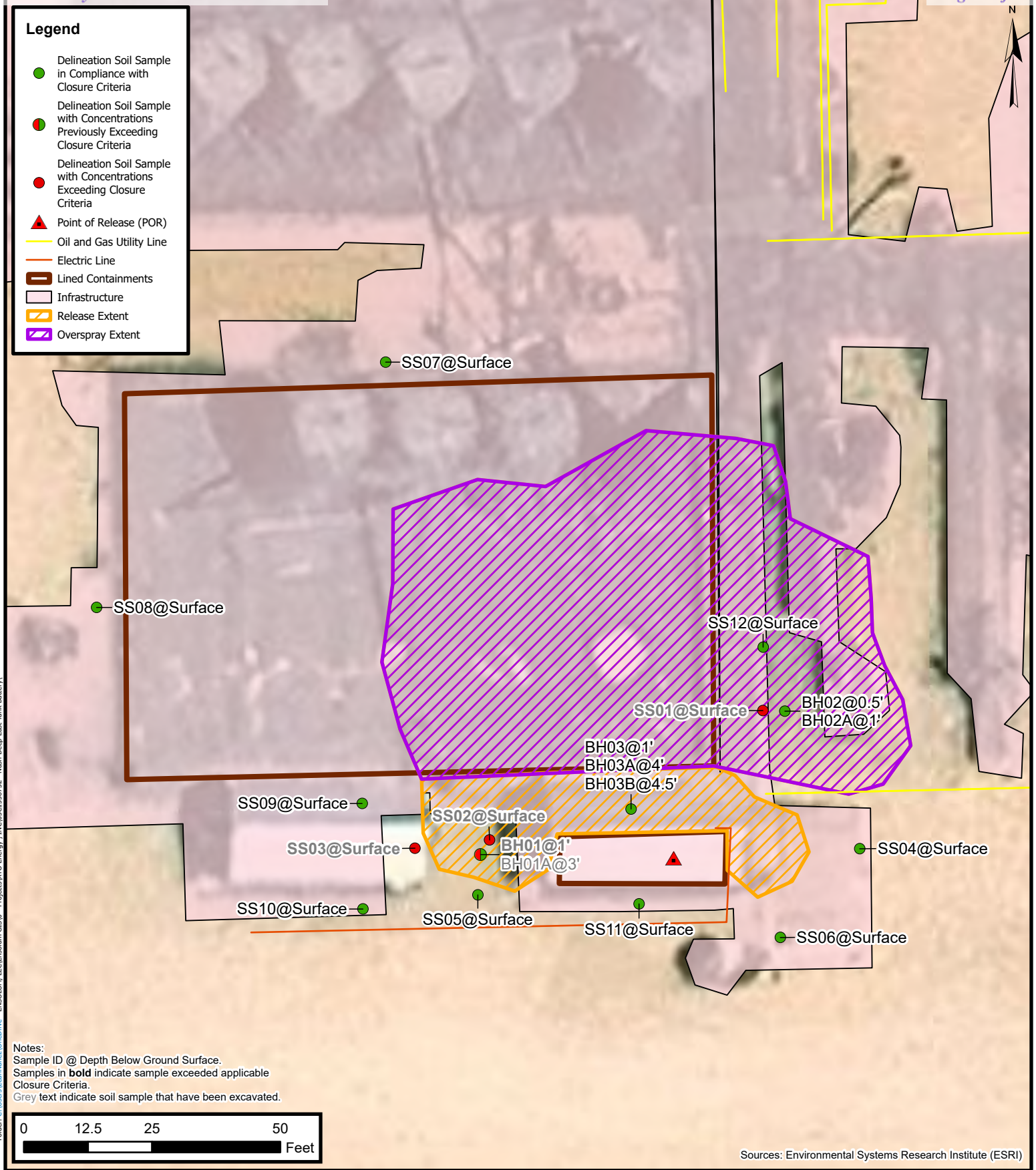
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FIGURE

1







## Delineation Soil Sample Locations

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**FIGURE**  
**2**

**Legend**

- Confirmation Floor Soil Sample in Compliance with Closure Criteria
- Confirmation Floor Soil Sample with Concentrations Exceeding Closure Criteria
- ▲ Confirmation Sidewall Soil Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Soil Sample with Concentrations Exceeding Closure Criteria
- ▲ Point of Release (POR)
- Oil and Gas Utility Line
- Electric Utility Line
- ▭ Berm
- ▭ Infrastructure
- ▨ Excavation Extent
- ▨ Surface Scrape Extent

Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in **bold** indicate sample exceeded applicable Closure Criteria.

0 12.5 25 50  
 Feet

Sources: Environmental Systems Research Institute (ESRI)

## Confirmation Soil Sample Location

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**FIGURE**

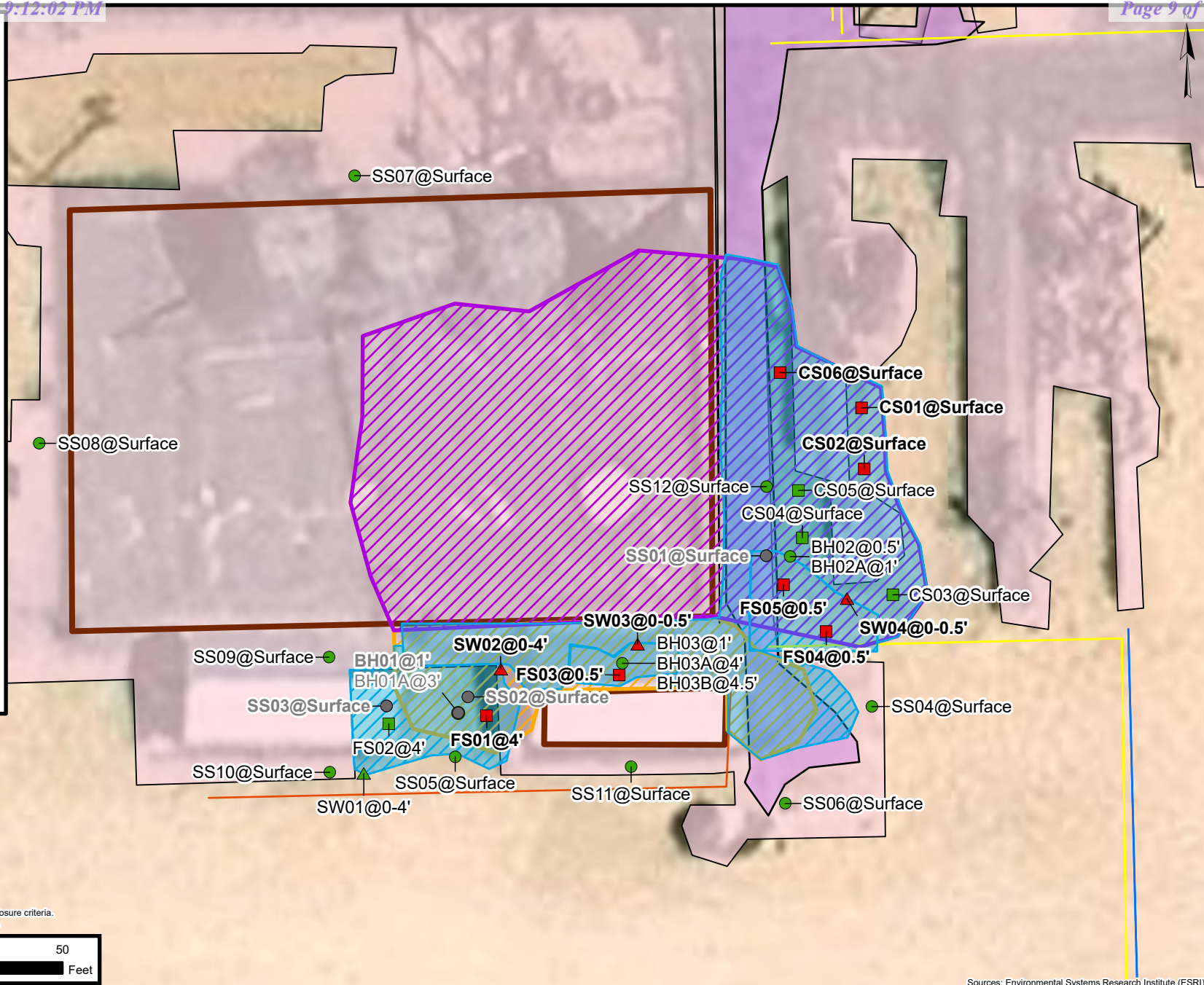
**3**



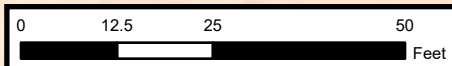


# Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Confirmation Floor Soil Sample in Compliance with Closure Criteria
- Confirmation Floor Soil Sample with Concentrations Exceeding Closure Criteria
- ▲ Confirmation Sidewall Soil Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Soil Sample with Concentrations Exceeding Closure Criteria
- Soil Sample - Excavated
- Oil and Gas Utility Line
- Electric Utility Line
- WATER UTILITY
- Previous Approved Deferral Area - NAPP2327146621
- Lined Containment
- Infrastructure
- Release Extent
- Overspray Extent
- Excavation Extent
- Area of Requested Deferral



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in **bold** indicate sample exceeded applicable closure criteria.  
 Grey text indicate soil sample that have been excavated.



Sources: Environmental Systems Research Institute (ESRI)



## Area of Requested Deferral

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FIGURE  
 4



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Nash Deep East TB  
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 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
BH01	09/24/2025	4	<0.100	39.8	583	3,010	377	3,593	3,970	48.0
BH01A	09/24/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
BH02	09/02/2025	0.5	<0.050	<0.300	<10.0	34.8	<10.0	34.8	34.8	208
BH02A	09/02/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
BH03	09/26/2025	1	<0.00199	0.0118	<50.0	<50.0	<50.0	<50.0	<50.0	496
BH03A	09/26/2025	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	158
BH03B	09/26/2025	4.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	149
SS01	09/02/2025	Surface	<0.050	0.598	<10.0	4,660	948	4,660	5,608	6,240
SS02	09/02/2025	Surface	<0.500	102	3,420	41,500	5,610	44,920	50,530	32.0
SS03	09/02/2025	Surface	<0.050	<0.300	<10.0	598	313	598	911	48.0
SS04	09/02/2025	Surface	<0.050	<0.300	<10.0	21.1	<10.0	21.1	21.1	80.0
SS05	09/02/2025	Surface	<0.050	<0.300	<10.0	19.5	<10.0	19.5	19.5	32.0
SS06	09/02/2025	Surface	<0.050	<0.300	<10.0	17.3	10.8	17.3	28.1	80.0
SS07	09/24/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS08	09/24/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS09	09/24/2025	Surface	<0.050	<0.300	<10.0	32.2	14.5	32.2	46.7	48.0
SS10	09/24/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS11	09/24/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS12	09/24/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
Confirmation Soil Samples										
CS01	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,520
CS02	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,700
CS03	09/25/2025	Surface	<0.050	<0.300	<10.0	29.1	<10.0	29.1	29.1	48.0
CS04	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS05	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS06	09/25/2025	Surface	<0.050	<0.300	<10.0	23.5	<10.0	23.5	23.5	16,400
FS01	09/25/2025	4	<0.050	1.28	19.4	214	28.0	233	261	112
FS02	09/25/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS03	09/25/2025	0.5	<0.500	113	1,680	7,850	909	9,530	10,439	64.0
FS04	09/25/2025	0.5	<0.050	<0.300	<10.0	169	35.8	169	205	576
FS05	09/25/2025	0.5	<0.050	<0.300	<10.0	336	66.0	336	402	1,300





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Nash Deep East TB  
 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
SW01	09/25/2025	0-4	<0.050	<0.300	<10.0	68.6	15.2	68.6	83.8	32.0
SW02	09/25/2025	0-4	<0.050	<0.300	<10.0	88.4	24.5	88.4	<b>113</b>	96.0
SW03	09/25/2025	0-0.5	<0.500	<b>90.5</b>	1,890	21,800	2,710	23,690	<b>26,400</b>	240
SW04	09/25/2025	0-0.5	<0.050	<0.300	<10.0	143	27.9	143	<b>171</b>	<b>672</b>

## 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

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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 =

- 321742103552601

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

USGS 321742103552601 23S.30E.19.123421

Eddy County, New Mexico  
Latitude 32°17'42", Longitude 103°55'26" NAD27  
Land-surface elevation 3,034 feet above NAVD88  
The depth of the well is 100 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

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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 measured
1959-02-06			D 62610		2954.29	NGVD29	P		Z	
1959-02-06			D 62611		2955.90	NAVD88	P		Z	
1959-02-06			D 72019	78.10			P		Z	
1959-04-07			D 62610		2963.09	NGVD29	1		Z	
1959-04-07			D 62611		2964.70	NAVD88	1		Z	
1959-04-07			D 72019	69.30			1		Z	
1972-09-20			D 62610		2963.64	NGVD29	1		Z	
1972-09-20			D 62611		2965.25	NAVD88	1		Z	
1972-09-20			D 72019	68.75			1		Z	
1975-12-09			D 62610		2963.40	NGVD29	1		Z	
1975-12-09			D 62611		2965.01	NAVD88	1		Z	
1975-12-09			D 72019	68.99			1		Z	
1976-01-15			D 62610		2962.29	NGVD29	1		Z	
1976-01-15			D 62611		2963.90	NAVD88	1		Z	
1976-01-15			D 72019	70.10			1		Z	
1977-01-19			D 62610		2963.99	NGVD29	1		Z	
1977-01-19			D 62611		2965.60	NAVD88	1		Z	



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
1977-01-19			D	72019	68.40			1		Z
1987-10-14			D	62610		2965.07	NGVD29	1		Z
1987-10-14			D	62611		2966.68	NAVD88	1		Z
1987-10-14			D	72019	67.32			1		Z
1993-05-06			D	62610		2966.29	NGVD29	1		S
1993-05-06			D	62611		2967.90	NAVD88	1		S
1993-05-06			D	72019	66.10			1		S

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
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
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.

[Questions or Comments](#)  
[Help](#)  
[Data Tips](#)  
[Explanation of terms](#)  
[Subscribe for system changes](#)

[Accessibility](#)   [FOIA](#)   [Privacy](#)   [Policies and Notices](#)  
[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: 2025-11-19 11:04:30 EST  
0.35 0.29 nadww01



## APPENDIX B

### Photographic Log

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**Photographic Log**

XTO Energy, Inc  
Nash Deep East TB  
nAPP2523829584



Photograph: 1  
Description: Point of release  
View: South

Date: 8/25/2025



Photograph: 2  
Description: Site assessment, release extent area  
View: North

Date: 8/26/2025



Photograph: 3  
Description: Assessment activities near BH01  
View: East

Date: 9/2/2025



Photograph: 4  
Description: Excavation activities near BH02  
View: South

Date: 9/26/2025



**Photographic Log**

XTO Energy, Inc  
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Photograph: 5 Date: 9/26/2025  
Description: Excavation activities near BH01  
View: Northeast



Photograph: 6 Date: 9/26/2025  
Description: Excavation activities near BH01  
View: East



Photograph: 7 Date: 9/26/2025  
Description: Excavation activities near BH03  
View: Southwest



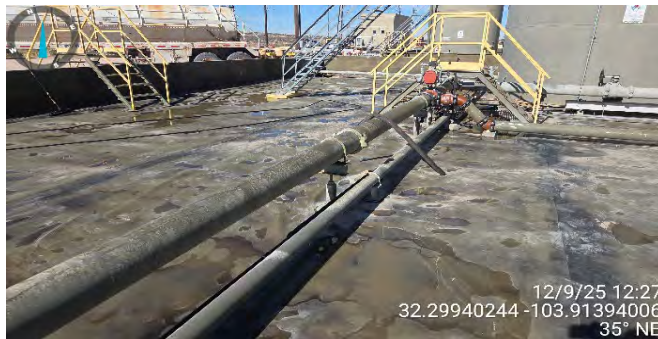
Photograph: 8 Date: 9/26/2025  
Description: Excavation activities near BH03  
View: East

**Photographic Log**

XTO Energy, Inc  
Nash Deep East TB  
nAPP2523829584



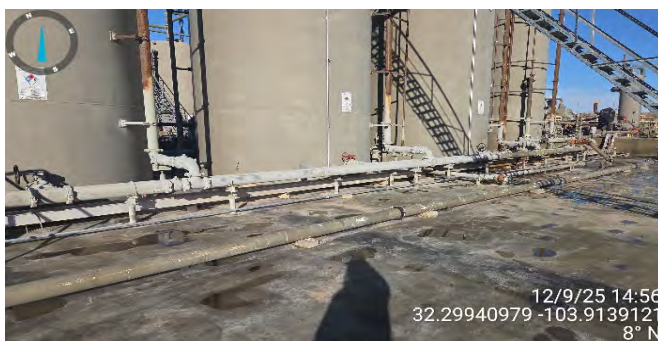
Photograph: 9 Date: 12/9/2025  
Description: Lined containment inspection  
View: West



Photograph: 10 Date: 12/9/2025  
Description: Lined containment inspection  
View: Northeast



Photograph: 11 Date: 12/9/2025  
Description: Lined containment inspection  
View: West



Photograph: 12 Date: 12/9/2025  
Description: Lined containment inspection  
View: North

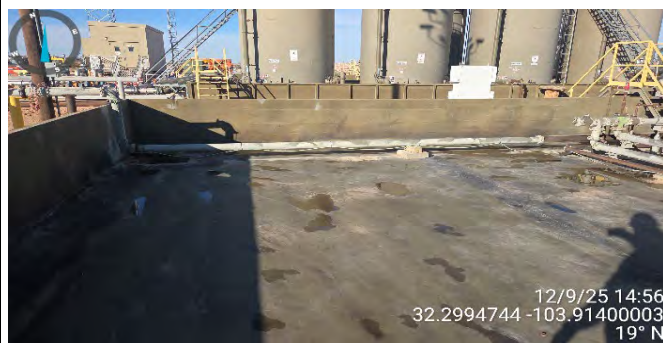


**Photographic Log**

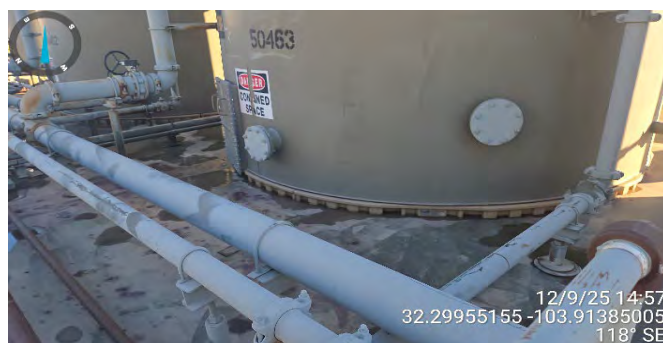
XTO Energy, Inc  
Nash Deep East TB  
nAPP2523829584



Photograph: 13                      Date: 12/9/2025  
Description: Lined containment inspection  
View: West



Photograph: 14                      Date: 12/9/2025  
Description: Lined containment inspection  
View: North



Photograph: 15                      Date: 12/9/2025  
Description: Lined containment inspection  
View: Southeast



Photograph: 16                      Date: 12/9/2025  
Description: Lined containment inspection  
View: Southeast



**Photographic Log**

XTO Energy, Inc  
Nash Deep East TB  
nAPP2523829584



Photograph: 17 Date: 12/9/2025  
Description: POR lined containment inspection  
View: East



Photograph: 18 Date: 12/9/2025  
Description: POR lined containment inspection  
View: North



Photograph: 19 Date: 12/9/2025  
Description: POR lined containment inspection  
View: South




Photograph: 20 Date: 12/9/2025  
Description: POR lined containment inspection  
View: Southwest




## APPENDIX C


### Lithologic Soil Sampling Logs

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 <b>ENSOLUM</b>		Sample Name: BH01		Date: 9/24/2025				
		Site Name: Nash Deep East Battery						
		Incident Number: nAPP2523829584						
		Job Number: 03C1558732						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.299297, -103.913783			Logged By: JH		Method: Hand Auger			
			Hole Diameter: 3 in		Total Depth: 3' bgs			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0-1', CALICHE, medium brown, medium grained, poorly sorted, subrounded grains.
M	<162.4	532	N	BH01	1	1	SP-SM	1-2', SAND with silt, dark gray brown, trace clay, medium grained to fine grained, poorly sorted, sub rounded grains, moist.
D	<162.4	44.0	N		2	2	CCHE	2-3', CALICHE with gravel, white to light brown, coarse grained to medium grained, moderate odor.
M	<162.4	4.4	N	BH01A	3	3		
						Total Depth @ 3' bgs		



 <b>ENSOLUM</b>		Sample Name: BH02		Date: 9/2/2025				
		Site Name: Nash Deep East Battery						
		Incident Number: nAPP2523829584						
		Job Number: 03C1558732						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.299372, -103.913590				Logged By: JH		Method: Hand Auger		
				Hole Diameter: 3 in		Total Depth: 1' bgs		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	207.2	0.0	N	BH01	0.5	0	CCHE	0-0.5', CALICHE, medium brown, medium grained, poorly sorted, sub rounded grains.
D	644	0.0	N	BH01A	1	1	SP	0.5-1', SAND with trace silt, medium brown, medium fine grained, poorly sorted grains.
Total Depth @ 1' bgs								

 <b>ENSOLUM</b>		Sample Name: BH03		Date: 9/26/2025				
		Site Name: Nash Deep East Battery						
		Incident Number: nAPP2523829584						
		Job Number: 03C1558732						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.299321, -103.913687			Logged By: JH		Method: Hand Auger			
			Hole Diameter: 3 in		Total Depth: 4.5' bgs			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	CCHE	0-1', CALICHE, medium brown, medium grained, poorly sorted, subrounded grains.
M	<162.4	331.2	N	BH03	1	1	SP-SM	1-3', SAND with silt, dark gray brown, medium grained to fine grained, poorly sorted, sub rounded grains.
D	<162.4	48.9	N		2	2		
D	<162.4	125.4	N		3	3		3-4', SAND with silt, some gravel, dark brown to beige, medium to fine grained, poorly sorted, sub rounded grains.
D	<162.4	5.6	N	BH03A	4	4		4-4.5', SAND with silt, some gravel, beige, medium to fine grained, poorly sorted, sub rounded grains.
D	<162.4	3.2	N	BH03B	4.5			
Total Depth @ 4.5' bgs								



## APPENDIX D

### Laboratory Analytical Reports & Chain of Custody Documentation

---



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

September 05, 2025

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

RE: NASH DEEP EAST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/04/25 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

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





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

**Analytical Results For:**

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

Received: 09/04/2025  
 Reported: 09/05/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732 ( SPILLS )  
 Project Location: XTO 32.29966-103.91290

Sampling Date: 09/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 02 0.5' (H255488-01)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2025	ND	2.02	101	2.00	1.82		
Toluene*	<0.050	0.050	09/04/2025	ND	1.98	99.2	2.00	3.49		
Ethylbenzene*	<0.050	0.050	09/04/2025	ND	1.93	96.4	2.00	3.81		
Total Xylenes*	<0.150	0.150	09/04/2025	ND	6.07	101	6.00	3.40		
Total BTEx	<0.300	0.300	09/04/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	09/05/2025	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	09/04/2025	ND	193	96.3	200	3.19	
DRO >C10-C28*	34.8	10.0	09/04/2025	ND	197	98.3	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	09/04/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.7 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 09/04/2025  
 Reported: 09/05/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732 ( SPILLS )  
 Project Location: XTO 32.29966-103.91290

Sampling Date: 09/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: BH 02 A 1' (H255488-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/04/2025	ND	2.02	101	2.00	1.82		
Toluene*	<0.050	0.050	09/04/2025	ND	1.98	99.2	2.00	3.49		
Ethylbenzene*	<0.050	0.050	09/04/2025	ND	1.93	96.4	2.00	3.81		
Total Xylenes*	<0.150	0.150	09/04/2025	ND	6.07	101	6.00	3.40		
Total BTEx	<0.300	0.300	09/04/2025	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	512	16.0	09/05/2025	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	09/04/2025	ND	193	96.3	200	3.19	
DRO >C10-C28*	<10.0	10.0	09/04/2025	ND	197	98.3	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	09/04/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.6 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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



---

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

---

### 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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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder".

---

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



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

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

September 05, 2025

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

RE: NASH DEEP EAST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/04/25 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

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



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

**Analytical Results For:**

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

Received: 09/04/2025  
 Reported: 09/05/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732 ( SPILLS )  
 Project Location: XTO 32.29966-103.91290

Sampling Date: 09/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS01 SURFACE (H255489-01)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2025	ND	2.02	101	2.00	1.82	
Toluene*	0.065	0.050	09/05/2025	ND	1.98	99.2	2.00	3.49	
Ethylbenzene*	<0.050	0.050	09/05/2025	ND	1.93	96.4	2.00	3.81	
Total Xylenes*	0.486	0.150	09/05/2025	ND	6.07	101	6.00	3.40	
Total BTEX	0.598	0.300	09/05/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6240	16.0	09/05/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2025	ND	193	96.3	200	3.19	
DRO >C10-C28*	4660	10.0	09/04/2025	ND	197	98.3	200	4.64	
EXT DRO >C28-C36	948	10.0	09/04/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 191 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 09/04/2025  
 Reported: 09/05/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732 ( SPILLS )  
 Project Location: XTO 32.29966-103.91290

Sampling Date: 09/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS02 SURFACE (H255489-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/05/2025	ND	2.02	101	2.00	1.82	
Toluene*	13.8	0.500	09/05/2025	ND	1.98	99.2	2.00	3.49	
Ethylbenzene*	8.67	0.500	09/05/2025	ND	1.93	96.4	2.00	3.81	
Total Xylenes*	79.3	1.50	09/05/2025	ND	6.07	101	6.00	3.40	
Total BTEX	102	3.00	09/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/05/2025	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
									S-06

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3420	50.0	09/04/2025	ND	193	96.3	200	3.19	
DRO >C10-C28*	41500	50.0	09/04/2025	ND	197	98.3	200	4.64	
EXT DRO >C28-C36	5610	50.0	09/04/2025	ND					

Surrogate: 1-Chlorooctane 415 % 44.4-145

Surrogate: 1-Chlorooctadecane 1610 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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



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

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Mike Snyder".

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





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 05, 2025

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

RE: NASH DEEP EAST BATTERY

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder".

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



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

**Analytical Results For:**

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

Received: 09/04/2025  
 Reported: 09/05/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732 ( SPILLS )  
 Project Location: XTO 32.29966-103.91290

Sampling Date: 09/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS06 SURFACE (H255490-01)**

BTEX 8021B		mg/ kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/05/2025	ND	2.02	101	2.00	1.82		
Toluene*	<0.050	0.050	09/05/2025	ND	1.98	99.2	2.00	3.49		
Ethylbenzene*	<0.050	0.050	09/05/2025	ND	1.93	96.4	2.00	3.81		
Total Xylenes*	<0.150	0.150	09/05/2025	ND	6.07	101	6.00	3.40		
Total BTEX	<0.300	0.300	09/05/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/05/2025	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	09/04/2025	ND	193	96.3	200	3.19	
DRO >C10-C28*	17.3	10.0	09/04/2025	ND	197	98.3	200	4.64	
EXT DRO >C28-C36	10.8	10.0	09/04/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.0 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 09/04/2025  
 Reported: 09/05/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732 ( SPILLS )  
 Project Location: XTO 32.29966-103.91290

Sampling Date: 09/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS03 SURFACE (H255490-02)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2025	ND	2.02	101	2.00	1.82	
Toluene*	<0.050	0.050	09/05/2025	ND	1.98	99.2	2.00	3.49	
Ethylbenzene*	<0.050	0.050	09/05/2025	ND	1.93	96.4	2.00	3.81	
Total Xylenes*	<0.150	0.150	09/05/2025	ND	6.07	101	6.00	3.40	
Total BTEX	<0.300	0.300	09/05/2025	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	48.0	16.0	09/05/2025	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	09/04/2025	ND	193	96.3	200	3.19	
DRO >C10-C28*	598	10.0	09/04/2025	ND	197	98.3	200	4.64	
EXT DRO >C28-C36	313	10.0	09/04/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.5 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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





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

**Analytical Results For:**

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

Received: 09/04/2025  
 Reported: 09/05/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732 ( SPILLS )  
 Project Location: XTO 32.29966-103.91290

Sampling Date: 09/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS04 SURFACE (H255490-03)**

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/05/2025	ND	2.02	101	2.00	1.82		
Toluene*	<0.050	0.050	09/05/2025	ND	1.98	99.2	2.00	3.49		
Ethylbenzene*	<0.050	0.050	09/05/2025	ND	1.93	96.4	2.00	3.81		
Total Xylenes*	<0.150	0.150	09/05/2025	ND	6.07	101	6.00	3.40		
Total BTEX	<0.300	0.300	09/05/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/05/2025	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	09/04/2025	ND	193	96.3	200	3.19	
DRO >C10-C28*	21.1	10.0	09/04/2025	ND	197	98.3	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	09/04/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.0 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 09/04/2025  
 Reported: 09/05/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732 ( SPILLS )  
 Project Location: XTO 32.29966-103.91290

Sampling Date: 09/02/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SS05 SURFACE (H255490-04)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2025	ND	2.02	101	2.00	1.82	
Toluene*	<0.050	0.050	09/05/2025	ND	1.98	99.2	2.00	3.49	
Ethylbenzene*	<0.050	0.050	09/05/2025	ND	1.93	96.4	2.00	3.81	
Total Xylenes*	<0.150	0.150	09/05/2025	ND	6.07	101	6.00	3.40	
Total BTEX	<0.300	0.300	09/05/2025	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	09/05/2025	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	09/04/2025	ND	193	96.3	200	3.19	
DRO >C10-C28*	19.5	10.0	09/04/2025	ND	197	98.3	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	09/04/2025	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.1 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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

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

---

### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "Mike Snyder".

---

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



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

[illegible]





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

September 29, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: NASH DEEP EAST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/25/25 13:55.

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](http://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  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/25/2025  
Reported: 09/29/2025  
Project Name: NASH DEEP EAST BATTERY  
Project Number: 03C1558732  
Project Location: XTO 32.29966, -103.91290

Sampling Date: 09/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: BH 01 1 (H255997-01)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/26/2025	ND	1.90	94.8	2.00	0.318	
<b>Toluene*</b>	<b>3.61</b>	0.100	09/26/2025	ND	1.98	98.9	2.00	1.92	
<b>Ethylbenzene*</b>	<b>4.59</b>	0.100	09/26/2025	ND	1.96	98.2	2.00	2.47	GC-NC1
<b>Total Xylenes*</b>	<b>31.6</b>	0.300	09/26/2025	ND	6.05	101	6.00	2.38	GC-NC1
<b>Total BTX</b>	<b>39.8</b>	0.600	09/26/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 173 % 70.4-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	09/26/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>583</b>	10.0	09/26/2025	ND	198	98.9	200	0.206	
<b>DRO &gt;C10-C28*</b>	<b>3010</b>	10.0	09/26/2025	ND	212	106	200	0.703	
<b>EXT DRO &gt;C28-C36</b>	<b>377</b>	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 133 % 52.4-130

Surrogate: 1-Chlorooctadecane 134 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/25/2025  
Reported: 09/29/2025  
Project Name: NASH DEEP EAST BATTERY  
Project Number: 03C1558732  
Project Location: XTO 32.29966, -103.91290

Sampling Date: 09/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: BH 01A 3 (H255997-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	198	98.9	200	0.206	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	212	106	200	0.703	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 91.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.1 % 39.9-141

Cardinal Laboratories

\*=Accredited Analyte

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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.
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

19

[illegible]



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

September 29, 2025

TRACY HILLARD

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: NASH DEEP EAST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/25/25 13:55.

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](http://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  
TRACY HILLARD  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 09/25/2025  
Reported: 09/29/2025  
Project Name: NASH DEEP EAST BATTERY  
Project Number: 03C1558732  
Project Location: XTO 32.29966, -103.91290

Sampling Date: 09/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 07 SURFACE (H255998-01)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

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	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	198	98.9	200	0.206	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	212	106	200	0.703	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 91.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.0 % 39.9-141

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/25/2025  
Reported: 09/29/2025  
Project Name: NASH DEEP EAST BATTERY  
Project Number: 03C1558732  
Project Location: XTO 32.29966, -103.91290

Sampling Date: 09/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 08 SURFACE (H255998-02)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

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	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	198	98.9	200	0.206	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	212	106	200	0.703	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/25/2025  
Reported: 09/29/2025  
Project Name: NASH DEEP EAST BATTERY  
Project Number: 03C1558732  
Project Location: XTO 32.29966, -103.91290

Sampling Date: 09/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 09 SURFACE (H255998-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

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	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	198	98.9	200	0.206	
DRO >C10-C28*	32.2	10.0	09/26/2025	ND	212	106	200	0.703	
EXT DRO >C28-C36	14.5	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/25/2025  
Reported: 09/29/2025  
Project Name: NASH DEEP EAST BATTERY  
Project Number: 03C1558732  
Project Location: XTO 32.29966, -103.91290

Sampling Date: 09/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 10 SURFACE (H255998-04)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

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	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	198	98.9	200	0.206	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	212	106	200	0.703	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/25/2025  
Reported: 09/29/2025  
Project Name: NASH DEEP EAST BATTERY  
Project Number: 03C1558732  
Project Location: XTO 32.29966, -103.91290

Sampling Date: 09/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 11 SURFACE (H255998-05)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-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	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	198	98.9	200	0.206	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	212	106	200	0.703	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 94.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/25/2025  
Reported: 09/29/2025  
Project Name: NASH DEEP EAST BATTERY  
Project Number: 03C1558732  
Project Location: XTO 32.29966, -103.91290

Sampling Date: 09/24/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: SS 12 SURFACE (H255998-06)**

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	09/26/2025	ND	1.90	94.8	2.00	0.318		
Toluene*	<0.050	0.050	09/26/2025	ND	1.98	98.9	2.00	1.92		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.96	98.2	2.00	2.47		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	6.05	101	6.00	2.38		
Total BTX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/26/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/26/2025	ND	198	98.9	200	0.206	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	212	106	200	0.703	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.2 % 39.9-141

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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

1 of 1

Company Name: Ensolum, LLC				<b>BILL TO</b>				ANALYSIS REQUEST			
Project Manager: Tracy Hillard				P.O. #:							
Address: 3122 National Parks Hwy				Company: XTO Energy Inc							
City: Carlsbad				Attn: <del>Cotton Brown</del> Dale Wadell							
Phone #: 575 937 3906				Address: 3104 E Green St							
State: NM Zip: 88220											
Project #: 03C1556732				City: Carlsbad							
Project Owner: XTO				State: NM Zip: 88220							
Project Name: Mush Deep East Battery				Phone #:							
Project Location: 332.29966, -103.91290				Fax #:							
Sampler Name: Joshua Barkly											
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	Chlorides	TPH	BTEX		
1	SS07	Surface	G	1	9/24/25	1056	X	X	X		
2	SS06	Surface	G	1	10/12	1048	X	X	X		
3	SS09	Surface	G	1	10/53	1053	X	X	X		
4	SS10	Surface	G	1	11/45	1145	X	X	X		
5	SS11	Surface	G	1	9/24/25	1140	X	X	X		
6	SS12	Surface	G	1							
JDS											

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Relinquished By:	Date: 9/25/25	Received By:	Date: 9/25/25
Relinquished By:	Time: 1355	Received By:	Time:
Delivered By: (Circle One)	Observed Temp. °C: 0.4	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 0.7	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		Turnaround Time: 14 hr	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
		Thermometer ID: #1403	Correction Factor: 0.3
		Remarks: VAP 2523629584	FA 2126039123
		Cost Center: 105641001	GCAL: 19605000 - 4p11s
		Vertical Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: 10342126039123
		All Results are emailed. Please provide Email address: j.barkly@ensolum.com	Fullard@ensolum.com, TMorrissey@ensolum.com, KThomason@ensolum.com
		Bacteria (only) Sample Condition	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
		Observed Temp. °C	Corrected Temp. °C

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

September 30, 2025

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

RE: NASH DEEP EAST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

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](http://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 "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS01 4' (H256047-01)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35	
<b>Toluene*</b>	<b>0.094</b>	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84	
<b>Ethylbenzene*</b>	<b>0.125</b>	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78	
<b>Total Xylenes*</b>	<b>1.06</b>	0.150	09/29/2025	ND	6.01	100	6.00	4.80	GC-NC1
<b>Total BTX</b>	<b>1.28</b>	0.300	09/29/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 120 % 70.4-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	09/29/2025	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
<b>GRO C6-C10*</b>	<b>19.4</b>	10.0	09/26/2025	ND	182	91.0	200	0.409	
<b>DRO &gt;C10-C28*</b>	<b>214</b>	10.0	09/26/2025	ND	187	93.7	200	0.802	
<b>EXT DRO &gt;C28-C36</b>	<b>28.0</b>	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 112 % 52.4-130

Surrogate: 1-Chlorooctadecane 121 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW01 0-4' (H256047-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35		
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80		
Total BTEx	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

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	09/29/2025	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	09/26/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	68.6	10.0	09/26/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	15.2	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW02 0-4' (H256047-03)**

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	09/29/2025	ND	1.89	94.7	2.00	1.35	
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80	
Total BTX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

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	09/29/2025	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	09/26/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	88.4	10.0	09/26/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	24.5	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS03 0.5' (H256047-04)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/29/2025	ND	1.89	94.7	2.00	1.35	
Toluene*	15.3	0.500	09/29/2025	ND	1.95	97.3	2.00	3.84	
Ethylbenzene*	12.5	0.500	09/29/2025	ND	1.94	97.1	2.00	4.78	
Total Xylenes*	85.6	1.50	09/29/2025	ND	6.01	100	6.00	4.80	GC-NC1
Total BTX	113	3.00	09/29/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 154 % 70.4-141

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/29/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1680	10.0	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	7850	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	909	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 277 % 52.4-130

Surrogate: 1-Chlorooctadecane 254 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW03 0-0.5' (H256047-05)**

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/29/2025	ND	1.89	94.7	2.00	1.35	
Toluene*	13.8	0.500	09/29/2025	ND	1.95	97.3	2.00	3.84	
Ethylbenzene*	9.61	0.500	09/29/2025	ND	1.94	97.1	2.00	4.78	
Total Xylenes*	67.1	1.50	09/29/2025	ND	6.01	100	6.00	4.80	GC-NC1
Total BTEX	90.5	3.00	09/29/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 146 % 70.4-141

Chloride, SM4500Cl-B			mg/kg					Analyzed By: KH	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	09/29/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1890	50.0	09/29/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	21800	50.0	09/29/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	2710	50.0	09/29/2025	ND					

Surrogate: 1-Chlorooctane 420 % 52.4-130

Surrogate: 1-Chlorooctadecane 543 % 39.9-141

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**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS04 0.5' (H256047-06)**

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	09/29/2025	ND	1.89	94.7	2.00	1.35		
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80		
Total BTX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	169	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	35.8	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS05 0.5' (H256047-07)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35	
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80	
Total BTX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	336	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	66.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 104 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: SW04 0-0.5' (H256047-08)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35		
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80		
Total BTX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	143	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	27.9	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 77.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS01 SURFACE (H256047-09)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35	
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80	
Total BTEX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5520	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS02 SURFACE (H256047-10)**

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35		
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80		
Total BTX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 86.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS06 SURFACE (H256047-11)**

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	09/29/2025	ND	1.89	94.7	2.00	1.35		
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80		
Total BTX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16400	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	23.5	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.3 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---

Celey D. Keene, Lab Director/Quality Manager



2-2

Page 14 of 15





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

September 30, 2025

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

RE: NASH DEEP EAST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene  
Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: FS 02 4 (H256048-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35	
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80	
Total BTX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 03 SURFACE (H256048-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35		
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	29.1	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 85.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 04 SURFACE (H256048-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35		
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78		
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80		
Total BTEX	<0.300	0.300	09/29/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 84.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/26/2025  
 Reported: 09/30/2025  
 Project Name: NASH DEEP EAST BATTERY  
 Project Number: 03C1558732  
 Project Location: XTO 32.299326-103.913669

Sampling Date: 09/25/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Alyssa Parras

**Sample ID: CS 05 SURFACE (H256048-04)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2025	ND	1.89	94.7	2.00	1.35	
Toluene*	<0.050	0.050	09/29/2025	ND	1.95	97.3	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/29/2025	ND	1.94	97.1	2.00	4.78	
Total Xylenes*	<0.150	0.150	09/29/2025	ND	6.01	100	6.00	4.80	
Total BTX	<0.300	0.300	09/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/29/2025	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	09/27/2025	ND	182	91.0	200	0.409	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	187	93.7	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 87.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.7 % 39.9-141

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

---

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-1

Company Name: Ensolum, LLC

Project Manager: Tracy Hillard

Address: 601 N Marientfeld Street, Suite 400

City: Midland

Phone #: (575) 937-3906

State: TX Zip: 79701

Project #: 03C1558732

Fax #: Project Owner: XTO Energy

Project Name: Nash Deep East

- SPILLS

Project Location: 32.299326, -103.913669

Sampler Name: Trevor Wargo

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)

1350418

ES02  
CS03  
CS04  
CS05

4

surface

(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:

Received By:

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

All Results are emailed. Please provide Email address:

BBell@ensolum.com, TMorrissey@ensolum.com,

THillard@ensolum.com, KThomason@ensolum.com twargo@ensolum.com

REMARKS: Incident Number: NAPP2523829584

Cost Center: 1056641001

GFCM: 48605000

Turnaround Time:

48h

Standard

RUSH

Thermometer ID #413

Correction Factor: -0.5°C

☒

Bacteria (only)

Cool Intact

Yes ☐ No ☐

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

11.1°C

38.2°C

11.1°C

11.1°C

11.1°C

11.1°C

11.1°C

11.1°C

11.1°C

11.1°C

Observed Temp. °C

Corrected Temp. °C

11.1°C

38.2°C

11.1°C

11.1°C

11.1°C

CHECKED BY:

(Initials)

PP

PP

PP

PP

PP

Turnaround Time:

48h

Standard

RUSH

Thermometer ID #413

Correction Factor: -0.5°C

11.1°C

☒

Bacteria (only)

Cool Intact

Yes ☐ No ☐

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

11.1°C

38.2°C

11.1°C

Observed Temp. °C

Corrected Temp. °C

11.1°C

38.2°C

11.1°C

11.1°C

11.1°C

CHECKED BY:

(Initials)

PP

PP

PP

PP

PP

Turnaround Time:

48h

Standard

RUSH

Thermometer ID #413

Correction Factor: -0.5°C

11.1°C

☒

Bacteria (only)

Cool Intact

Yes ☐ No ☐

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

11.1°C

38.2°C

11.1°C



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Tracy Hillard

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 9/30/2025 9:58:22 AM

## JOB DESCRIPTION

Nash Deep East Battery

03C1558732

## JOB NUMBER

890-8876-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

See page two for job notes and contact information.

# Eurofins Carlsbad

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

## Authorization



Generated  
9/30/2025 9:58:22 AM

Authorized for release by  
Jessica Kramer, Project Manager  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)  
(432)704-5440



Client: Ensolum  
Project/Site: Nash Deep East Battery

Laboratory Job ID: 890-8876-1  
SDG: 03C1558732

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Definitions/Glossary

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Ensolum  
Project: Nash Deep East Battery

Job ID: 890-8876-1

**Job ID: 890-8876-1**

**Eurofins Carlsbad**

### Job Narrative 890-8876-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 9/26/2025 1:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C.

### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Diesel Range Organics

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-119905/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (880-63123-A-16-D MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-119905/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

Client Sample ID: BH03

Lab Sample ID: 890-8876-1

Date Collected: 09/26/25 10:30

Matrix: Solid

Date Received: 09/26/25 13:53

Sample Depth: 1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/29/25 09:16	09/29/25 13:06	1
Toluene	0.00391		0.00199	mg/Kg		09/29/25 09:16	09/29/25 13:06	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/25 09:16	09/29/25 13:06	1
m-Xylene & p-Xylene	0.00534		0.00398	mg/Kg		09/29/25 09:16	09/29/25 13:06	1
o-Xylene	0.00250		0.00199	mg/Kg		09/29/25 09:16	09/29/25 13:06	1
Xylenes, Total	0.00784		0.00398	mg/Kg		09/29/25 09:16	09/29/25 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	09/29/25 09:16	09/29/25 13:06	1
1,4-Difluorobenzene (Surr)	95		70 - 130	09/29/25 09:16	09/29/25 13:06	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0118		0.00398	mg/Kg			09/29/25 13:06	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/25 00:20	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/30/25 00:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/30/25 00:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/30/25 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130	09/26/25 15:53	09/30/25 00:20	1
o-Terphenyl	124		70 - 130	09/26/25 15:53	09/30/25 00:20	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	496		50.5	mg/Kg			09/29/25 09:45	5

Client Sample ID: BH03A

Lab Sample ID: 890-8876-2

Date Collected: 09/26/25 11:00

Matrix: Solid

Date Received: 09/26/25 13:53

Sample Depth: 4

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/25 09:16	09/29/25 13:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/25 09:16	09/29/25 13:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/25 09:16	09/29/25 13:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/29/25 09:16	09/29/25 13:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/25 09:16	09/29/25 13:26	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/29/25 09:16	09/29/25 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	09/29/25 09:16	09/29/25 13:26	1

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## Client Sample Results

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

Client Sample ID: BH03A

Lab Sample ID: 890-8876-2

Date Collected: 09/26/25 11:00

Matrix: Solid

Date Received: 09/26/25 13:53

Sample Depth: 4

## Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	09/29/25 09:16	09/29/25 13:26	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/29/25 13:26	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/25 00:35	1

## Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/30/25 00:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/30/25 00:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/30/25 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			09/26/25 15:53	09/30/25 00:35	1
o-Terphenyl	122		70 - 130			09/26/25 15:53	09/30/25 00:35	1

## Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		10.1	mg/Kg			09/29/25 09:50	1

Client Sample ID: BH03B

Lab Sample ID: 890-8876-3

Date Collected: 09/26/25 11:20

Matrix: Solid

Date Received: 09/26/25 13:53

Sample Depth: 4.5

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/29/25 09:16	09/29/25 13:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/29/25 09:16	09/29/25 13:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/29/25 09:16	09/29/25 13:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/29/25 09:16	09/29/25 13:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/29/25 09:16	09/29/25 13:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/29/25 09:16	09/29/25 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	09/29/25 09:16	09/29/25 13:47	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/29/25 09:16	09/29/25 13:47	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/29/25 13:47	1

## Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/25 00:49	1

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Client Sample Results

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

Client Sample ID: BH03B  
Date Collected: 09/26/25 11:20  
Date Received: 09/26/25 13:53  
Sample Depth: 4.5

Lab Sample ID: 890-8876-3  
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/30/25 00:49	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/30/25 00:49	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/30/25 00:49	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	116		70 - 130			09/26/25 15:53	09/30/25 00:49	1	
o-Terphenyl	129		70 - 130			09/26/25 15:53	09/30/25 00:49	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	149		9.98	mg/Kg			09/29/25 09:56	1	

## Surrogate Summary

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-8875-A-1-G MS	Matrix Spike	104	105
890-8875-A-1-H MSD	Matrix Spike Duplicate	98	100
890-8876-1	BH03	97	95
890-8876-2	BH03A	101	94
890-8876-3	BH03B	98	100
LCS 880-119952/1-A	Lab Control Sample	107	107
LCSD 880-119952/2-A	Lab Control Sample Dup	107	107
MB 880-119952/5-A	Method Blank	90	92
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-63123-A-16-D MS	Matrix Spike	119	135 S1+
880-63123-A-16-E MSD	Matrix Spike Duplicate	105	116
890-8876-1	BH03	113	124
890-8876-2	BH03A	112	122
890-8876-3	BH03B	116	129
LCS 880-119905/2-A	Lab Control Sample	119	136 S1+
LCSD 880-119905/3-A	Lab Control Sample Dup	119	140 S1+
MB 880-119905/1-A	Method Blank	117	130
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-119952/5-A

Matrix: Solid

Analysis Batch: 119948

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119952

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/25 09:16	09/29/25 12:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/25 09:16	09/29/25 12:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/25 09:16	09/29/25 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/29/25 09:16	09/29/25 12:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/25 09:16	09/29/25 12:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/25 09:16	09/29/25 12:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	09/29/25 09:16	09/29/25 12:24	1
1,4-Difluorobenzene (Surr)	92		70 - 130	09/29/25 09:16	09/29/25 12:24	1

Lab Sample ID: LCS 880-119952/1-A

Matrix: Solid

Analysis Batch: 119948

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08946		mg/Kg		89	70 - 130
Toluene	0.100	0.08803		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.08979		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1962		mg/Kg		98	70 - 130
o-Xylene	0.100	0.09627		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-119952/2-A

Matrix: Solid

Analysis Batch: 119948

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119952

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07918		mg/Kg		79	70 - 130	12	35
Toluene	0.100	0.07450		mg/Kg		75	70 - 130	17	35
Ethylbenzene	0.100	0.07436		mg/Kg		74	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1615		mg/Kg		81	70 - 130	19	35
o-Xylene	0.100	0.07971		mg/Kg		80	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-8875-A-1-G MS

Matrix: Solid

Analysis Batch: 119948

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 119952

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09347		mg/Kg		93	70 - 130
Toluene	<0.00201	U	0.100	0.09308		mg/Kg		93	70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8875-A-1-G MS

Matrix: Solid

Analysis Batch: 119948

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 119952

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09188		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1997		mg/Kg		100	70 - 130
o-Xylene	<0.00201	U	0.100	0.09747		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-8875-A-1-H MSD

Matrix: Solid

Analysis Batch: 119948

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 119952

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09705		mg/Kg		97	70 - 130	4	35
Toluene	<0.00201	U	0.100	0.09308		mg/Kg		93	70 - 130	0	35
Ethylbenzene	<0.00201	U	0.100	0.09022		mg/Kg		90	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1936		mg/Kg		97	70 - 130	3	35
o-Xylene	<0.00201	U	0.100	0.09491		mg/Kg		95	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-119905/1-A

Matrix: Solid

Analysis Batch: 119970

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 119905

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/29/25 20:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/29/25 20:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/26/25 15:53	09/29/25 20:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	09/26/25 15:53	09/29/25 20:20	1
o-Terphenyl	130		70 - 130	09/26/25 15:53	09/29/25 20:20	1

Lab Sample ID: LCS 880-119905/2-A

Matrix: Solid

Analysis Batch: 119970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119905

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1103		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	1000	982.6		mg/Kg		98	70 - 130

Eurofins Carlsbad

## QC Sample Results

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-119905/2-A

Matrix: Solid

Analysis Batch: 119970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 119905

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	136	S1+	70 - 130

Lab Sample ID: LCSD 880-119905/3-A

Matrix: Solid

Analysis Batch: 119970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 119905

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1098		mg/Kg		110	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	984.6		mg/Kg		98	70 - 130	0	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	140	S1+	70 - 130

Lab Sample ID: 880-63123-A-16-D MS

Matrix: Solid

Analysis Batch: 119970

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 119905

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	998	963.1		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	998	896.9		mg/Kg		90	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: 880-63123-A-16-E MSD

Matrix: Solid

Analysis Batch: 119970

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 119905

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	998	855.8		mg/Kg		86	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<50.1	U	998	794.8		mg/Kg		80	70 - 130	12	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	116		70 - 130

Eurofins Carlsbad



## QC Sample Results

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-119940/1-A

Matrix: Solid

Analysis Batch: 119957

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			09/29/25 09:14	1

Lab Sample ID: LCS 880-119940/2-A

Matrix: Solid

Analysis Batch: 119957

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	254.8		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-119940/3-A

Matrix: Solid

Analysis Batch: 119957

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	256.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-8875-A-1-E MS

Matrix: Solid

Analysis Batch: 119957

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	127		249	372.0		mg/Kg		98	90 - 110

Lab Sample ID: 890-8875-A-1-F MSD

Matrix: Solid

Analysis Batch: 119957

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	127		249	372.8		mg/Kg		99	90 - 110	0	20

## QC Association Summary

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

## GC VOA

## Analysis Batch: 119948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8876-1	BH03	Total/NA	Solid	8021B	119952
890-8876-2	BH03A	Total/NA	Solid	8021B	119952
890-8876-3	BH03B	Total/NA	Solid	8021B	119952
MB 880-119952/5-A	Method Blank	Total/NA	Solid	8021B	119952
LCS 880-119952/1-A	Lab Control Sample	Total/NA	Solid	8021B	119952
LCSD 880-119952/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	119952
890-8875-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	119952
890-8875-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	119952

## Prep Batch: 119952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8876-1	BH03	Total/NA	Solid	5035	
890-8876-2	BH03A	Total/NA	Solid	5035	
890-8876-3	BH03B	Total/NA	Solid	5035	
MB 880-119952/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-119952/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-119952/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8875-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-8875-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 120021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8876-1	BH03	Total/NA	Solid	Total BTEX	
890-8876-2	BH03A	Total/NA	Solid	Total BTEX	
890-8876-3	BH03B	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 119905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8876-1	BH03	Total/NA	Solid	8015NM Prep	
890-8876-2	BH03A	Total/NA	Solid	8015NM Prep	
890-8876-3	BH03B	Total/NA	Solid	8015NM Prep	
MB 880-119905/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-119905/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-119905/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-63123-A-16-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-63123-A-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 119970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8876-1	BH03	Total/NA	Solid	8015B NM	119905
890-8876-2	BH03A	Total/NA	Solid	8015B NM	119905
890-8876-3	BH03B	Total/NA	Solid	8015B NM	119905
MB 880-119905/1-A	Method Blank	Total/NA	Solid	8015B NM	119905
LCS 880-119905/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	119905
LCSD 880-119905/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	119905
880-63123-A-16-D MS	Matrix Spike	Total/NA	Solid	8015B NM	119905
880-63123-A-16-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	119905

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QC Association Summary

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

GC Semi VOA

Analysis Batch: 120092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8876-1	BH03	Total/NA	Solid	8015 NM	
890-8876-2	BH03A	Total/NA	Solid	8015 NM	
890-8876-3	BH03B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 119940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8876-1	BH03	Soluble	Solid	DI Leach	
890-8876-2	BH03A	Soluble	Solid	DI Leach	
890-8876-3	BH03B	Soluble	Solid	DI Leach	
MB 880-119940/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-119940/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-119940/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8875-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8875-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 119957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8876-1	BH03	Soluble	Solid	300.0	119940
890-8876-2	BH03A	Soluble	Solid	300.0	119940
890-8876-3	BH03B	Soluble	Solid	300.0	119940
MB 880-119940/1-A	Method Blank	Soluble	Solid	300.0	119940
LCS 880-119940/2-A	Lab Control Sample	Soluble	Solid	300.0	119940
LCSD 880-119940/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	119940
890-8875-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	119940
890-8875-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	119940

## Lab Chronicle

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

Client Sample ID: BH03

Lab Sample ID: 890-8876-1

Date Collected: 09/26/25 10:30

Matrix: Solid

Date Received: 09/26/25 13:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	119952	09/29/25 09:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119948	09/29/25 13:06	EL	EET MID
Total/NA	Analysis	Total BTEX		1			120021	09/29/25 13:06	SA	EET MID
Total/NA	Analysis	8015 NM		1			120092	09/30/25 00:20	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	119905	09/26/25 15:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119970	09/30/25 00:20	FC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	119940	09/29/25 08:12	SI	EET MID
Soluble	Analysis	300.0		5			119957	09/29/25 09:45	CS	EET MID

Client Sample ID: BH03A

Lab Sample ID: 890-8876-2

Date Collected: 09/26/25 11:00

Matrix: Solid

Date Received: 09/26/25 13:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	119952	09/29/25 09:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119948	09/29/25 13:26	EL	EET MID
Total/NA	Analysis	Total BTEX		1			120021	09/29/25 13:26	SA	EET MID
Total/NA	Analysis	8015 NM		1			120092	09/30/25 00:35	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	119905	09/26/25 15:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119970	09/30/25 00:35	FC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	119940	09/29/25 08:12	SI	EET MID
Soluble	Analysis	300.0		1			119957	09/29/25 09:50	CS	EET MID

Client Sample ID: BH03B

Lab Sample ID: 890-8876-3

Date Collected: 09/26/25 11:20

Matrix: Solid

Date Received: 09/26/25 13:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	119952	09/29/25 09:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	119948	09/29/25 13:47	EL	EET MID
Total/NA	Analysis	Total BTEX		1			120021	09/29/25 13:47	SA	EET MID
Total/NA	Analysis	8015 NM		1			120092	09/30/25 00:49	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	119905	09/26/25 15:53	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	119970	09/30/25 00:49	FC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	119940	09/29/25 08:12	SI	EET MID
Soluble	Analysis	300.0		1			119957	09/29/25 09:56	CS	EET MID

## Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



Method Summary

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

- ASTM = ASTM International
- EPA = US Environmental Protection Agency
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
- TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum  
Project/Site: Nash Deep East Battery

Job ID: 890-8876-1  
SDG: 03C1558732

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8876-1	BH03	Solid	09/26/25 10:30	09/26/25 13:53	1
890-8876-2	BH03A	Solid	09/26/25 11:00	09/26/25 13:53	4
890-8876-3	BH03B	Solid	09/26/25 11:20	09/26/25 13:53	4.5

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



## Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Chain of Custody

Project Manager:	Tracy Hillard	Bill to: (if different)	Dale Woodall
Company Name:	Ensolum	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	515 937 3906	Email:	Kthomas@Ensolum.com

890-8876 Chain of Command

Program. ☐ JRP ☐ Crownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

[illegible]

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8876-1

SDG Number: 03C1558732

Login Number: 8876

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8876-1

SDG Number: 03C1558732

Login Number: 8876

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 09/29/25 07:53 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	





## APPENDIX E

### Spill Volume Calculation

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<b>Location:</b>	<b>NASH DEEP EAST TB</b>	
<b>Spill Date:</b>	<b>8/25/2025</b>	
<b>Incident:</b>	<b>nAPP2523829584</b>	
<b>Area 1</b>		
Approximate Area =	5,568	sq. ft.
Average Saturation (or depth) of spill =	0.25	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	3.10	bbls
Total Produced Water =		bbls
<b>Area 2</b>		
Approximate Area =	1,159	sq. ft.
Average Saturation (or depth) of spill =	1.50	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	3.87	bbls
Total Produced Water =		bbls
<b>TOTAL VOLUME OF LEAK</b>		
Total Crude Oil =	6.97	bbls
Total Produced Water =		bbls
<b>TOTAL VOLUME RECOVERED</b>		
Total Crude Oil =	5.00	bbls
Total Produced Water =		bbls

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 499235

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 499235
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2523829584
Incident Name	NAPP2523829584 NASH DEEP EAST TB @ 0
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2126039123] Nash Deep East TB

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	NASH DEEP EAST TB
Date Release Discovered	08/25/2025
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Coupling   Crude Oil   Released: 7 BBL   Recovered: 5 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Vibration caused the nipple on the discharge side on the LACT to break

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**Oil Conservation Division**  
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QUESTIONS, Page 2

Action 499235

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 499235
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Robert Woodall Title: Environmental Analyst Email: robert.d.woodall@exxonmobil.com Date: 08/26/2025
--	--

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QUESTIONS, Page 3

Action 499235

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  499235
	Action Type:  [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

<b>Site Characterization</b>	
<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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

<b>Remediation Plan</b>	
<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	No
<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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CONDITIONS

Action 499235

**CONDITIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 499235
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Spill calculations and initial c141 are approved. A remediation closure report is due for submittal to the OCD within 90-days from the discovery of the release, no later than 11/24/2025.	8/26/2025



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QUESTIONS

Action 537921

**QUESTIONS**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537921
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2523829584
Incident Name	NAPP2523829584 NASH DEEP EAST TB @ FAPP2126039123
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Facility	[fAPP2126039123] Nash Deep East TB

**Location of Release Source**

Please answer all the questions in this group.

Site Name	NASH DEEP EAST TB
Date Release Discovered	08/25/2025
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Coupling   Crude Oil   Released: 7 BBL   Recovered: 5 BBL   Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Vibration caused the nipple on the discharge side on the LACT to break

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QUESTIONS, Page 2

Action 537921

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537921
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

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

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

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/26/2025
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QUESTIONS, Page 3

Action 537921

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number: 537921
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Site Characterization</b>	
<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
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 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

<b>Remediation Plan</b>	
<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
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	16400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	26400
GRO+DRO (EPA SW-846 Method 8015M)	23690
BTEX (EPA SW-846 Method 8021B or 8260B)	113
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	08/25/2025
On what date will (or did) the final sampling or liner inspection occur	12/05/2025
On what date will (or was) the remediation complete(d)	12/05/2025
What is the estimated surface area (in square feet) that will be reclaimed	3175
What is the estimated volume (in cubic yards) that will be reclaimed	200
What is the estimated surface area (in square feet) that will be remediated	3175
What is the estimated volume (in cubic yards) that will be remediated	3175
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 537921

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  537921
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<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>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	No
(Ex Situ) Excavation and <b>on-site</b> 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)	Yes
Other Non-listed Remedial Process. Please specify	Requesting deferral due to active production equipment in the area.
<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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/26/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 537921

**QUESTIONS (continued)**

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  537921
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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	Active production equipment, lined containments, electrical panels, and process piping.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	Not answered.
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	Not answered.
<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	fAPP2126039123 Nash Deep East TB
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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 12/26/2025

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QUESTIONS, Page 6

Action 537921

**QUESTIONS (continued)**

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 537921
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	507235
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/26/2025
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 537921

CONDITIONS

Operator:  XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:  5380
	Action Number:  537921
	Action Type:  [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Deferral approved. Deferral of CS01, CS02, CS06, FS01, FS03 through FS05, and SW02 through SW04 are 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. CS01, CS02, CS06, FS01, FS03 through FS05, and SW02 through SW04,	1/5/2026