



October 6, 2025

**New Mexico Oil Conservation Division**

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

**Re: Closure Request  
Lost Tank 25 CGL  
Incident Number NAPP2512130347  
Facility ID fAPP2506449496  
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared this *Closure Request* to document assessment, delineation, and soil sampling activities performed at Lost Tank 25 CGL (Site). The purpose of the Site assessment, delineation, and soil sampling activities conducted was to assess the presence or absence of impacts to soil resulting from a fire, produced water, and crude oil release at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number NAPP2512130347.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit K, Section 25, Township 22 South, Range 31 East, in Eddy County, New Mexico (32.360084°, -103.732143°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 8, 2025, a fire resulted in the release of approximately 2 barrels (bbls) of produced water and 1 bbl of crude oil onto the pad. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on April 10, 2025, and subsequently submitted a Release Notification Form C-141 (Form C-141) on May 1, 2025. The release was assigned Incident Number NAPP2512130347.

**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 on NMOCD Portal of the Form C-141, Site Assessment/Characterization submitted on May 14, 2025. Potential site receptors are identified on **Figure 1 in Appendix A**.

Depth to groundwater at the Site is between 50 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. On March 6, 2025, a New Mexico State Engineer Office permitted well (C-04943) did not encounter groundwater with the well drilled to a depth of 55 feet bgs located approximately 0.59 miles southwest of the Site. On June 10, 2005, a New Mexico State Engineer Office permitted well (C-03152) did not encounter groundwater with the well drilled to a depth of 938 feet bgs

Oxy USA Inc.  
Closure Request  
Lost Tank 25 CGL

located approximately 0.70 miles southwest of the Site. All wells used for depth to groundwater determination are presented on **Figure 4** in **Appendix A**. The associated well records are included in **Appendix A**.

The closest continuously flowing or significant watercourse to the Site is a intermittent stream located approximately 7,688 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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

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

## DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between April 21, 2025, and June 6, 2025, Ensolum personnel conducted Site delineation activities to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven initial composite soil samples (CS01 through CS07) were collected within the release area, at a depth ranging of 0.25 feet bgs to confirm the lateral extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during the Site visit and a photographic log is included as **Appendix B**.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500Cl-B.

## CONFIRMATION SOIL SAMPLING AND EXCAVATION ACTIVITIES

Between June 6, 2025, and August 15, 2025, Ensolum personnel were on-Site to complete confirmation soil sampling of the release extent. Seven excavation floor composite soil samples (FS01 through FS07) were collected every 200 square feet at depths ranging from 0.5 feet bgs to 3 feet bgs. Four excavation sidewall composite soil samples (SW01 through SW04) were collected along the sidewalls of the excavation every 200 square feet. Additionally, six delineation composite soil samples (DS01 through DS06) were collected outside the release extent to prove lateral delineation. The soil samples were handled and analyzed following the same procedures as described above.

The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 3**. Photographic documentation was completed during the Site visit and a photographic log is included as **Appendix B**.

Laboratory analytical results for confirmation soil samples of soils remaining in place at the Site (CS01 through CS04, FS01 through FS07, SW01 through SW04, and DS01 through DS06) indicated all COC

Oxy USA Inc.  
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Lost Tank 25 CGL

concentrations were compliant with the reclamation requirement. The laboratory analytical results are summarized in **Table 1** and the complete laboratory analytical reports are included in **Appendix C**.

## BACKFILLING

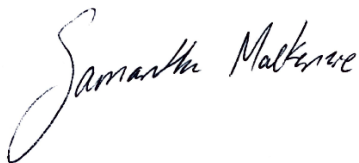
Subsequent to the results of the final confirmation soil sampling, the excavated areas were backfilled with clean fill material and contoured to the original surrounding grade. A representative 5-point composite soil sample (BF01) was collected from the backfill material prior to use at the Site. Laboratory analytical results for the backfill soil sample confirmed compliance with the NMOCD requirements for the reclaimed area to be non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached **Table 2** and the complete laboratory analytical report is included in **Appendix C**. The release area was wholly contained on the facility caliche pad, therefore revegetation of the backfilled excavation area is not necessary at this time.

## CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 8, 2025, fire which resulted in the release of produced water and crude oil. Laboratory analytical results for the soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. Oxy has completed backfill of the excavation with material purchased locally and recontoured the Site to match pre-existing Site conditions. As such, Oxy respectfully requests closure for Incident Number NAPP2512130347.

If you have any questions or comments, please contact Ms. Samantha MacKenzie at (703) 357-3545 or [smackenzie@ensolum.com](mailto:smackenzie@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Samantha MacKenzie  
Staff Geologist



Beaux Jennings  
Associate Principal

cc: Jessica Kent, Oxy USA Inc.  
Daniel Sparks, Oxy USA Inc.  
BLM

### Appendices:

Figure 1	Topographic Map
Figure 2	Site Vicinity Map
Figure 3	Site Map
Figure 4	Closure Criteria Map
Figure 5	Backfill Site Map
Table 1	Soil Sample Analytical Results
Table 2	Backfill Soil Sample Analytical Results
Appendix A	Supporting Documentation

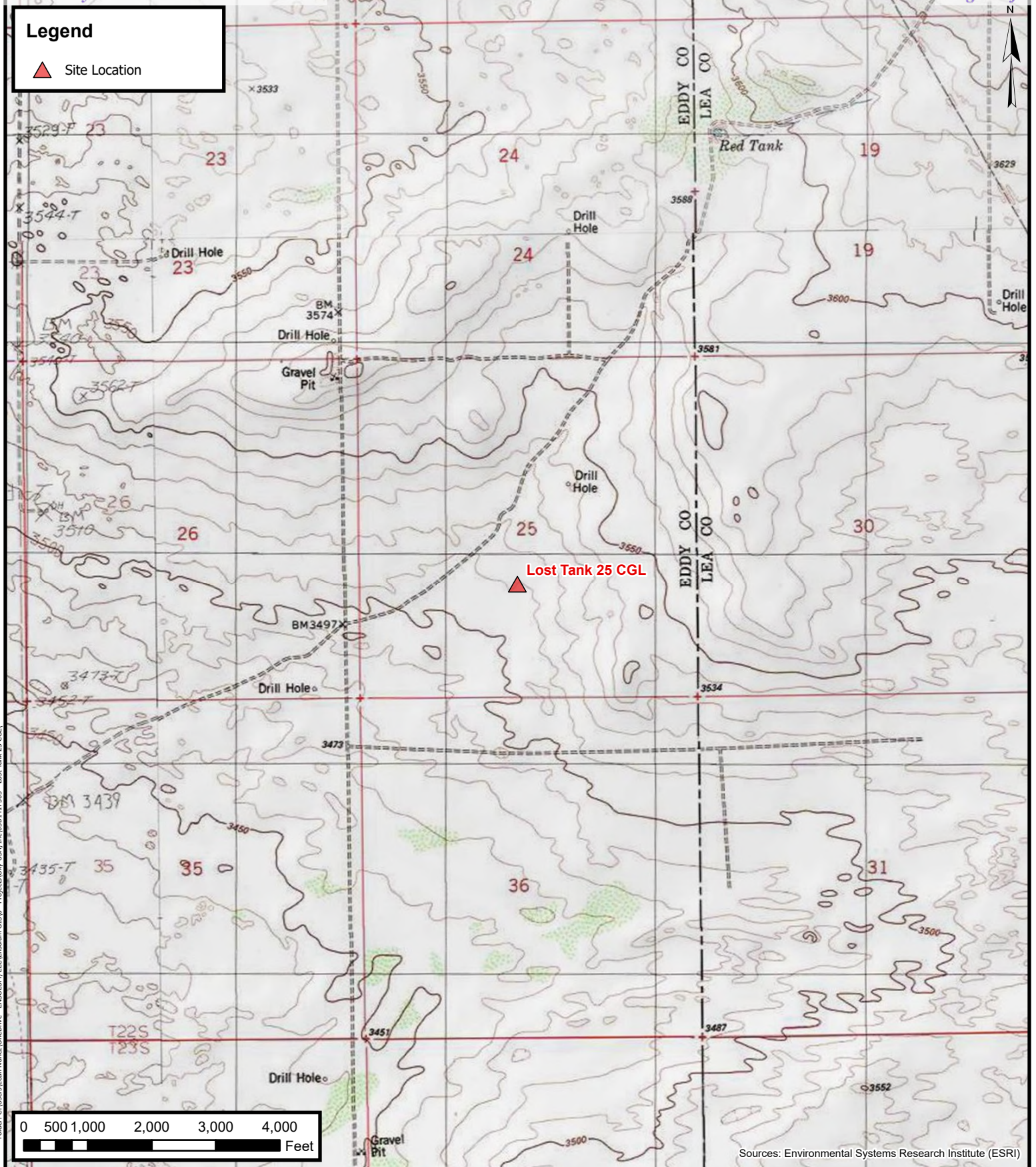
Oxy USA Inc.  
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Lost Tank 25 CGL

Appendix B Photographic Log  
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation





FIGURES



## Topographic Map

Oxy USA, Inc.  
Lost Tank 25 CGL  
Project Number: 03B1417303  
32.360084°, -103.732143°  
Eddy County, New Mexico

FIGURE

1



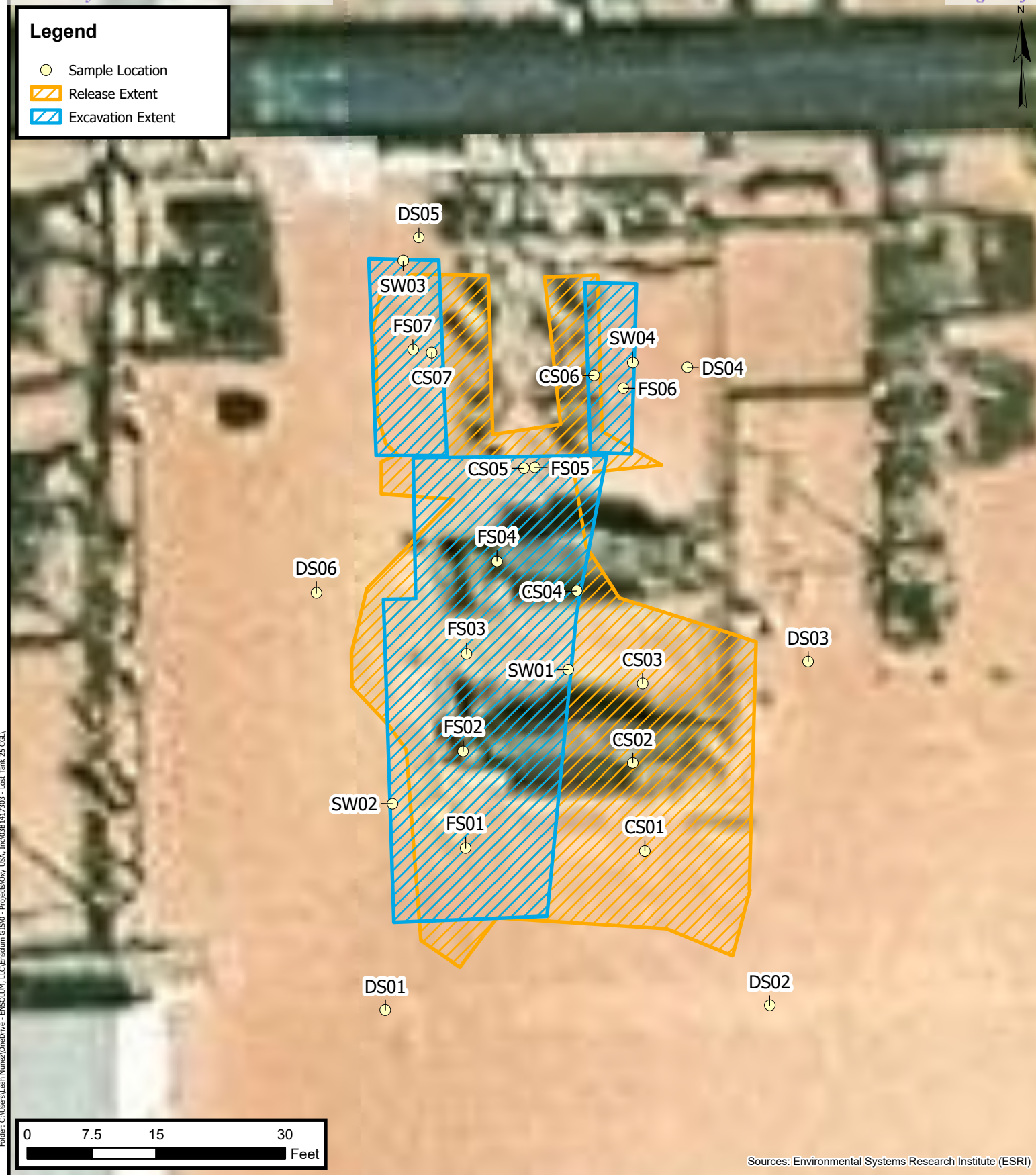


## Site Vicinity Map

Oxy USA, Inc.  
Lost Tank 25 CGL  
Project Number: 03B1417303  
32.360084°, -103.732143°  
Eddy County, New Mexico

**FIGURE**  
**2**



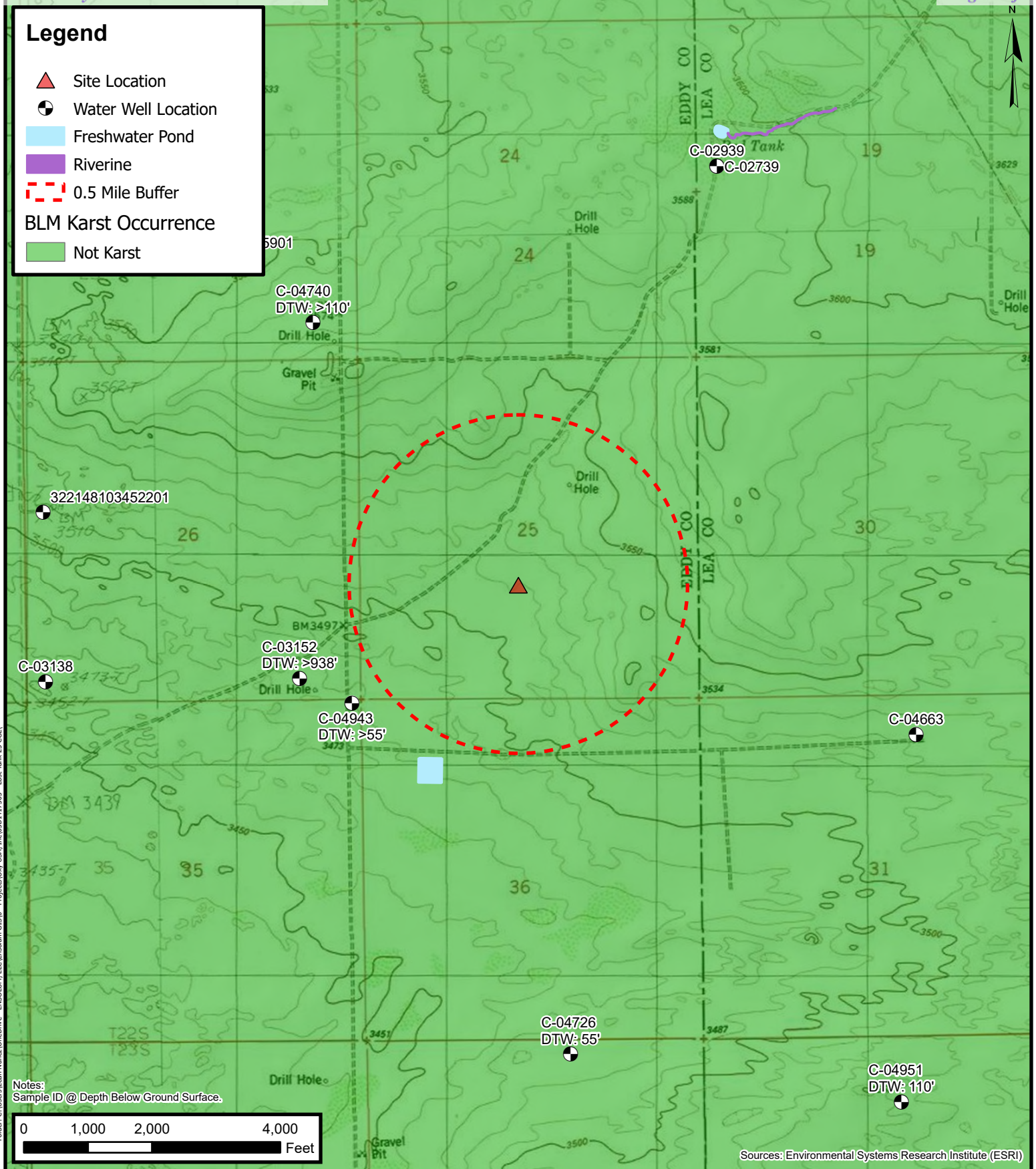


**ENSOLUM**  
Environmental, Engineering and  
Hydrogeologic Consultants

**Site Map**  
Oxy USA, Inc.  
Lost Tank 25 CGL  
Project Number: 03B1417303  
32.360084°, -103.732143°  
Eddy County, New Mexico

**FIGURE**  
**3**





## Closure Criteria Map

Oxy USA, Inc.  
Lost Tank 25 CGL  
Project Number: 03B1417303  
32.360084°, -103.732143°  
Eddy County, New Mexico

FIGURE

4





## Legend

- Composite Sample Location

Lea Land Caliche Pit

0 1,000 2,000  
Feet

Sources: Environmental Systems Research Institute (ESRI)



## Backfill Site Map

Lea Land Caliche Pit  
32.5232397° N, 103.7845410° W  
Lea County, New Mexico

FIGURE  
5



TABLES





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Lost Tank 25 CGL  
 Oxy USA, Inc.  
 Eddy County, New Mexico  
 Ensolum Project No. 03B1417303

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	100	600
<b>Initial Soil Sample Analytical Results</b>									
CS01	6/6/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
CS02	6/6/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS03	6/6/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
CS04	6/6/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
CS05	6/6/2025	0.25	<0.050	1.98	169	11,200	2,260	13,629	208
CS06	6/6/2025	0.25	<0.050	<0.300	12.7	3,510	1,060	4,583	96.0
CS07	6/6/2025	0.25	<0.050	0.907	115	13,700	2,750	16,565	80.0
<b>Excavation Soil Sample Analytical Results</b>									
FS01	6/6/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS02	6/6/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS03	6/6/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS04	6/6/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS05	7/1/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS06	7/1/2025	0.5	<0.050	1.35	64.5	2,210	492	2,767	416
	8/15/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
FS07	7/1/2025	1	<0.050	<0.300	<10.0	<10.0	15.1	15.1	<16.0
<b>Sidewall Soil Sample Analytical Results</b>									
SW01	6/6/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	112
SW02	6/6/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW03	7/1/2025	0-1	<0.050	<0.300	<10.0	44.1	15.7	59.8	64.0
SW04	8/15/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
<b>Delineation Soil Sample Analytical Results</b>									
DS01	6/19/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS02	6/19/2025	0.25	<0.050	<0.300	<10.0	25.6	<10.0	25.6	80.0
DS03	6/19/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS04	6/19/2025	0.25	<0.050	<0.300	<10.0	15.8	<10.0	15.8	32.0
DS05	6/19/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
DS06	6/19/2025	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

**Notes:**

**Concentrations in bold and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release**

represents samples that have been excavated or resampled

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



TABLE 2 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS LEA LAND BACKFILL OXY USA, INC. LEA 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 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Backfill Soil Sample										
BF01	08/28/2025	NA	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

Notes:  
bgs: below ground surface  
mg/kg: milligrams per kilogram  
NMOCD: New Mexico Oil Conservation Division  
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics  
DRO: Diesel Range Organics  
ORO: Oil Range Organics  
TPH: Total Petroleum Hydrocarbon

NA: Not Applicable  
NE: Not Established  
NMAC: New Mexico Administrative Code



## APPENDIX A

### Supporting Documentation

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod 1		WELL TAG ID NO.		OSE FILE NO(S). C-4943			
	WELL OWNER NAME(S) Pilot Water Solutions				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 20 Greenway Plaza, Suite 500				CITY Houston	STATE TX	ZIP 77046	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 21	SECONDS 18.9	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	44	25.9	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE S35 T22s R31e								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC		
	DRILLING STARTED 3-6-25	DRILLING ENDED 3-6-25	DEPTH OF COMPLETED WELL (FT) 55'		BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 3-10-25		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0'	55'	5'	No casing left in hole				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4943-POD 1	POD NO. 1	TRN NO. 779668
LOCATION: Eagle, 22.31.35.222	WELL TAG ID NO.	PAGE 1 OF 2



05E DII ROSWELL NM  
12 MAR '25 PM1:02

*Released to Imaging: 12/30/2025 11:36:38 AM*

Elizabeth K. Anderson, P.E.  
State Engineer



Well Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

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

Trn Nbr: 779668  
File Nbr: C 04943  
Well File Nbr: C 04943 POD1

Mar. 12, 2025

SHELLY COWDEN  
PILOT WATER SOLUTIONS  
20 GREENWAY PLAZA STE 500  
HOUSTON, TX 77046

Greetings:

The above numbered permit was issued in your name on 03/03/2025.

The Well Record was received in this office on 03/12/2025, stating that it had been completed on 03/06/2025, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/03/2026.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Maret Thompson".

Maret Thompson  
(575) 622-6521

drywell

Elizabeth K. Anderson, P.E.  
State Engineer



Roswell Office  
1900 WEST SECOND STREET  
ROSWELL, NM 88201

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

Trn Nbr: 779668  
File Nbr: C 04943  
Well File Nbr: C 04943 POD1

Mar. 12, 2025

JAMES HAWLEY  
H&R ENTERPRISES, LLC  
P.O. BOX 3641  
HOBBS, NM 88241

Greetings:

The above numbered permit was issued in your name on 03/03/2025.

The Well Record was received in this office on 03/12/2025, stating that it had been completed on 03/06/2025, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/03/2026.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Maret Thompson".

Maret Thompson  
(575) 622-6521


drywell



# Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE  
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 03152	SW	SE	SE	26	22S	31E	618250.0	3580606.0 *	

\* UTM location was derived from PLSS - see Help

Driller License:	1184	Driller Company:	WEST TEXAS WATER WELL SERVICE
Driller Name:	BROCKMAN, BERNARD J.		
Drill Start Date:	2005-06-01	Drill Finish Date:	2005-06-07
Log File Date:	2005-06-10	PCW Rcv Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size:	8.00	Depth Well:	938
		Depth Water:	

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

**From:** [Velez, Nelson, EMNRD](#)  
**To:** [Samantha MacKenzie](#)  
**Cc:** [daniel\\_sparks@oxy.com](#); [jessica\\_kent@oxy.com](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)  
**Subject:** Re: [EXTERNAL] Extension Request - Lost Tank 25 CGL (Incident ID: NAPP2512130347)  
**Date:** Monday, July 7, 2025 4:11:59 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[Outlook-s2oo20il.png](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

Good afternoon Samantha,

Thank you for the correspondence.

Your 30-day time extension is approved. Remediation Due date has been updated to August 6, 2025.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oed>



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Monday, July 7, 2025 2:56 PM  
**To:** Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>

**Subject:** FW: [EXTERNAL] Extension Request - Lost Tank 25 CGL (Incident ID: NAPP2512130347)

---

**From:** Samantha MacKenzie <smackenzie@ensolum.com>

**Sent:** Monday, July 7, 2025 2:51 PM

**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

**Cc:** Sparks, Daniel (DANOS LLC) <daniel\_sparks@oxy.com>; Kent, Jessica <jessica\_kent@oxy.com>

**Subject:** [EXTERNAL] Extension Request - Lost Tank 25 CGL (Incident ID: NAPP2512130347)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 30-day extension for the LOST TANK 25 CGL (Incident ID: NAPP2512130347). The due date was July 7, 2025, Oxy would appreciate an additional 30 extension making the new deadline August 7, 2025.

The site is in the process of being fully remediated and needs to be backfilled, we would like an additional 30 days to complete the backfill and drafting of the closure report. We humbly ask for an extension so that we may complete the remediation, backfill as well as the report and so it can be thoroughly reviewed before submitting the final copy to the portal. Please let us know if you have any questions.

Thank you,



**Samantha MacKenzie**

Staff Geologist

703-357-3545

Ensolum, LLC

in f X

**Samantha MacKenzie**

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**From:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Sent:** Thursday, August 7, 2025 9:33 AM  
**To:** Samantha MacKenzie  
**Cc:** daniel\_sparks@oxy.com; jessica\_kent@oxy.com; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD  
**Subject:** Re: [EXTERNAL] Extension Request - Lost Tank 25 CGL (Incident ID: NAPP2512130347)

[ \*\*EXTERNAL EMAIL\*\* ]

Good morning Samantha,

Thank you for the correspondence and in talking with me this morning. After our discussion, your 30-day time extension has been granted for 60-days. Remediation Due date has been updated to October 6, 2025.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oed>



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**From:** Samantha MacKenzie <smackenzie@ensolum.com>  
**Sent:** Wednesday, August 6, 2025 3:02 PM  
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Cc:** daniel\_sparks@oxy.com <daniel\_sparks@oxy.com>; jessica\_kent@oxy.com <jessica\_kent@oxy.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Subject:** RE: [EXTERNAL] Extension Request - Lost Tank 25 CGL (Incident ID: NAPP2512130347)

Good afternoon,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 30-day extension for the LOST TANK 25 CGL (Incident ID: NAPP2512130347). The due date was August 6, 2025, Oxy would appreciate an additional 30 extension making the new deadline September 6, 2025.

The site has run across some scheduling and mechanical issues and is in the process of being fully remediated and needs to be backfilled, we would like an additional 30 days to complete the backfill and drafting of the closure report. We humbly ask for an extension so that we may complete the remediation, backfill as well as the report and so it can be thoroughly reviewed before submitting the final copy to the portal. Please let us know if you have any questions.

Thank you,



**Samantha MacKenzie**

Staff Geologist

703-357-3545

Ensolum, LLC



---

**From:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

**Sent:** Monday, July 7, 2025 4:12 PM

**To:** Samantha MacKenzie <smackenzie@ensolum.com>

**Cc:** daniel\_sparks@oxy.com; jessica\_kent@oxy.com; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**Subject:** Re: [EXTERNAL] Extension Request - Lost Tank 25 CGL (Incident ID: NAPP2512130347)

[ \*\*EXTERNAL EMAIL\*\* ]

Good afternoon Samantha,

Thank you for the correspondence.

Your 30-day time extension is approved. Remediation Due date has been updated to August 6, 2025.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oed>



---

**From:** Wells, Shelly, EMNRD <[Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)>  
**Sent:** Monday, July 7, 2025 2:56 PM  
**To:** Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>  
**Subject:** FW: [EXTERNAL] Extension Request - Lost Tank 25 CGL (Incident ID: NAPP2512130347)

---

**From:** Samantha MacKenzie <[smackenzie@ensolum.com](mailto:smackenzie@ensolum.com)>  
**Sent:** Monday, July 7, 2025 2:51 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>  
**Cc:** Sparks, Daniel (DANOS LLC) <[daniel\\_sparks@oxy.com](mailto:daniel_sparks@oxy.com)>; Kent, Jessica <[jessica\\_kent@oxy.com](mailto:jessica_kent@oxy.com)>  
**Subject:** [EXTERNAL] Extension Request - Lost Tank 25 CGL (Incident ID: NAPP2512130347)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 30-day extension for the LOST TANK 25 CGL (Incident ID: NAPP2512130347). The due date was July 7, 2025, Oxy would appreciate an additional 30 extension making the new deadline August 7, 2025.

The site is in the process of being fully remediated and needs to be backfilled, we would like an additional 30 days to complete the backfill and drafting of the closure report. We humbly ask for an extension so that we may complete the remediation, backfill as well as the report and so it can be thoroughly reviewed before submitting the final copy to the portal. Please let us know if you have any questions.

Thank you,



**Samantha MacKenzie**

Staff Geologist

703-357-3545

Ensolum, LLC

in f X



## APPENDIX B

### Photographic Log

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**Photographic Log**

Oxy USA, Inc

Lost Tank 25 CGL

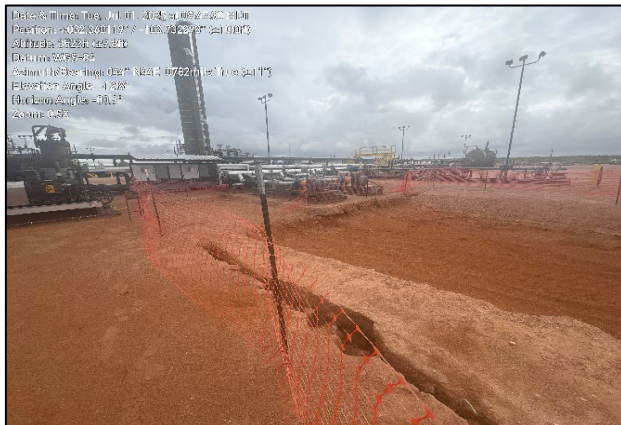
Incident Number nAPP2512130347



Photograph: 1 Date: 4/21/2025  
Description: Soil staining in release footprint  
View: Northeast



Photograph: 2 Date: 5/27/2025  
Description: Excavation Activities  
View: Northeast



Photograph: 3 Date: 7/1/2025  
Description: Excavation Activities  
View: Northeast



Photograph: 4 Date: 7/22/2025  
Description: Excavation and Backfill activities  
View: Southeast



**Photographic Log**

Oxy USA, Inc

Lost Tank 25 CGL

Incident Number nAPP2512130347



Photograph: 5 Date: 7/22/2025  
Description: Excavation and Backfill Activities  
View: Southeast



Photograph: 6 Date: 8/15/2025  
Description: Excavation Activities  
View: South



Photograph: 7 Date: 9/8/2025  
Description: Backfill Activities  
View: Northwest



Photograph: 8 Date: 9/8/2025  
Description: Backfill Activities  
View: Northwest



## APPENDIX C

### Laboratory Analytical Reports & Chain of Custody Documentation

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

June 12, 2025

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LOST TANK 25 CGL

Enclosed are the results of analyses for samples received by the laboratory on 06/06/25 12:36.

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  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 01 0.25 (H253400-01)**

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	06/06/2025	ND	2.01	100	2.00	2.93	
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350	
Total BTX	<0.300	0.300	06/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/09/2025	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	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 65.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 55.8 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 02 0.25 (H253400-02)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	2.93		
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350		
Total BTEX	<0.300	0.300	06/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/09/2025	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	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 56.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 48.8 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 03 0.25 (H253400-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	2.93	
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350	
Total BTEX	<0.300	0.300	06/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/09/2025	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	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 67.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 58.4 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 04 0.25 (H253400-04)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	2.93	
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350	
Total BTEx	<0.300	0.300	06/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/09/2025	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	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.0 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 05 0.25 (H253400-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2025	ND	2.01	100	2.00	2.93	
Toluene*	0.154	0.050	06/09/2025	ND	2.08	104	2.00	2.85	GC-NC1
Ethylbenzene*	0.137	0.050	06/09/2025	ND	2.03	102	2.00	1.92	
Total Xylenes*	1.68	0.150	06/09/2025	ND	6.25	104	6.00	0.350	
Total BTEx	1.98	0.300	06/09/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	06/09/2025	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*	169	50.0	06/09/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	11200	50.0	06/09/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	2260	50.0	06/09/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 237 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 06 0.25 (H253400-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	2.93	
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92	
<b>Total Xylenes*</b>	<b>0.179</b>	0.150	06/06/2025	ND	6.25	104	6.00	0.350	
Total BTEX	<0.300	0.300	06/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/09/2025	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*	12.7	10.0	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	3510	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	1060	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.5 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: CS 07 0.25 (H253400-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2025	ND	2.01	100	2.00	2.93	
Toluene*	<0.050	0.050	06/09/2025	ND	2.08	104	2.00	2.85	
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.03	102	2.00	1.92	
Total Xylenes*	0.907	0.150	06/09/2025	ND	6.25	104	6.00	0.350	
Total BTEX	0.907	0.300	06/09/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/09/2025	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*	115	50.0	06/09/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	13700	50.0	06/09/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	2750	50.0	06/09/2025	ND					

Surrogate: 1-Chlorooctane 131 % 44.4-145

Surrogate: 1-Chlorooctadecane 310 % 40.6-153

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 01 0-2' (H253400-08)**

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	06/06/2025	ND	2.01	100	2.00	2.93	
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350	
Total BTX	<0.300	0.300	06/06/2025	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	112	16.0	06/09/2025	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	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 66.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 59.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 02 0-2' (H253400-09)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	2.93	
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350	
Total BTX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	06/09/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 69.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 63.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 01 2' (H253400-10)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	2.93	
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350	
Total BTEx	<0.300	0.300	06/06/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/09/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 59.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 52.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 02 2' (H253400-11)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	2.93		
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350		
Total BTEx	<0.300	0.300	06/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/09/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 65.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 58.9 % 40.6-153

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**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 03 2' (H253400-12)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	2.93		
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350		
Total BTEX	<0.300	0.300	06/06/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 65.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 60.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 06/06/2025  
 Reported: 06/12/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: LEA CO., NM

Sampling Date: 06/06/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FS 04 2' (H253400-13)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	2.01	100	2.00	2.93	
Toluene*	<0.050	0.050	06/06/2025	ND	2.08	104	2.00	2.85	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.03	102	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.25	104	6.00	0.350	
Total BTX	<0.300	0.300	06/06/2025	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	32.0	16.0	06/09/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	194	96.9	200	0.591	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	0.839	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 68.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 61.9 % 40.6-153

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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.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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

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

Company Name: ENSOLUM						BILL TO				ANALYSIS REQUEST													
Project Manager: Samantha MacKenzie						P.O. #:																	
Address: 601 N. Marichfeld St. STE 400						Company: OXY USA																	
City: Midland State: TX Zip: 79701						Attn: Jessica Kent																	
Phone #: 703-357-3545 Fax #:						Address:																	
Project #: 03B1417303 Project Owner: OXY						City:																	
Project Name: Lost tank 25 CGL						State: Zip:																	
Project Location: Lea County, NM						Phone #:																	
Sampler Name: Nicolas Christacos						Fax #:																	
FOR LAB USE ONLY						MATRIX	PRESERV.	SAMPLING															
Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chloride					
H253400	CS01	0.25'	C	1			✓				✓	✓		06/06/25	0913	I	I	I					
1	CS02		C	1			✓				✓	✓			0917	I	I	I					
2	CS03		C	1			✓				✓	✓			0919	I	I	I					
3	CS04		C	1			✓				✓	✓			0922	I	I	I					
4	CS05		C	1			✓				✓	✓			0929	I	I	I					
5	CS06		C	1			✓				✓	✓			0925	I	I	I					
6	CS07		C	1			✓				✓	✓			0927	I	I	I					
7	SW01	0-2'	C	1			✓				✓	✓			0931	I	I	I					
8	SW02	0-2'	C	1			✓				✓	✓			0935	I	I	I					
9	FS01	2'	C	1			✓				✓	✓			0937	I	I	I					
10																							

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**Relinquished By:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Relinquished By: <i>Nicolas Christakos</i>		Date: <i>6-6-25</i> Time: <i>1230</i>		Received By: <i>Skodkiney</i>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS: <i>↑ smackenzie@ensolum.com</i>	
Time:		Time:					
Delivered By: (Circle One)		Observed Temp. °C <i>4.6</i>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) <i>SK</i>	
Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25		Corrected Temp. °C <i>4.9</i>				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor +0.3°C	
						Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 17 of 17

<b>Company Name:</b> Ersolum <b>Project Manager:</b> Samantha Mackenzie <b>Address:</b> 601 N. Martenfeld <b>City:</b> Midland <b>State:</b> TX <b>Zip:</b> 79701 <b>Phone #:</b> 703-357-3545 <b>Fax #:</b> <b>Project #:</b> 03B1417303 <b>Project Owner:</b> Oxy <b>Project Name:</b> Lost Tank 25 GGL <b>Project Location:</b> Lea County, NM <b>Sampler Name:</b> Nicolas Christofides				<b>BILL TO</b> <b>P.O. #:</b> <b>Company:</b> Oxy USA <b>Attn:</b> Jessica Kent <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>		<b>ANALYSIS REQUEST</b>																
FOR LAB USE ONLY																						
Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	BTX	TPH	Chloride						
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE													OTHER
#253400	FS02	2'	C	1								06/06/25	0938	/	/	/						
11	FS03	2'	C	1								06/06/25	0939	/	/	/						
13	FS04	2'	C	1								06/06/25	0941	/	/	/						
NFE 06/06/25 N/C																						

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<b>Relinquished By:</b> Nicolas Christofides <b>Date:</b> 6-6-25 <b>Time:</b> 1236		<b>Received By:</b> S. Rodriguez <b>Date:</b> <b>Time:</b>		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Add'l Phone #:</b> <b>All Results are emailed. Please provide Email address:</b> S.Mackenzie@ersolum.com	
<b>Relinquished By:</b> <b>Date:</b> <b>Time:</b>		<b>Received By:</b>		<b>REMARKS:</b>	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25		<b>Observed Temp. °C:</b> 4.6 <b>Corrected Temp. °C:</b> 4.9		<b>Sample Condition:</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		<b>Thermometer ID #140</b> <b>Correction Factor +0.3°C</b>		<b>Bacteria (only) Sample Condition:</b> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No	

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



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July 10, 2025

SAMANTHA MACKENZIE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: LOST TANK 25 CGL

Enclosed are the results of analyses for samples received by the laboratory on 06/23/25 12:18.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DS 01 0.25'	H253754-01	Soil	19-Jun-25 09:57	23-Jun-25 12:18
DS 02 0.25'	H253754-02	Soil	19-Jun-25 10:44	23-Jun-25 12:18
DS 06 0.25'	H253754-03	Soil	19-Jun-25 10:55	23-Jun-25 12:18
DS 03 0.25'	H253754-04	Soil	19-Jun-25 11:22	23-Jun-25 12:18
DS 04 0.25'	H253754-05	Soil	19-Jun-25 11:25	23-Jun-25 12:18
DS 05 0.25'	H253754-06	Soil	19-Jun-25 11:29	23-Jun-25 12:18

07/10/25 - Client added depths to all samples (see COC). This is the revised report and will replace the one sent on 06/27/25.

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

**DS 01 0.25'**  
**H253754-01 (Soil)**

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

Chloride	<16.0		16.0	mg/kg	4	5062522	AC	25-Jun-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5062422	JH	25-Jun-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134 5062422 JH 25-Jun-25 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	

Surrogate: 1-Chlorooctane 77.1 % 44.4-145 5062501 MS 25-Jun-25 8015B

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153 5062501 MS 25-Jun-25 8015B

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

**DS 02 0.25'**  
**H253754-02 (Soil)**

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

<b>Chloride</b>	<b>80.0</b>		16.0	mg/kg	4	5062522	AC	25-Jun-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5062422	JH	25-Jun-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	71.5-134		5062422	JH	25-Jun-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>25.6</b>		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.8 %	44.4-145		5062501	MS	25-Jun-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.1 %	40.6-153		5062501	MS	25-Jun-25	8015B	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

**DS 06 0.25'**  
**H253754-03 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	5062522	AC	25-Jun-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5062422	JH	25-Jun-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	71.5-134		5062422	JH	25-Jun-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			100 %	44.4-145		5062501	MS	25-Jun-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %	40.6-153		5062501	MS	25-Jun-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

**DS 03 0.25'**  
**H253754-04 (Soil)**

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

Chloride	32.0		16.0	mg/kg	4	5062522	AC	25-Jun-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5062422	JH	25-Jun-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			111 %	71.5-134		5062422	JH	25-Jun-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	

Surrogate: 1-Chlorooctane			82.1 %	44.4-145		5062501	MS	25-Jun-25	8015B	
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Surrogate: 1-Chlorooctadecane			83.5 %	40.6-153		5062501	MS	25-Jun-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

**DS 04 0.25'**  
**H253754-05 (Soil)**

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

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	5062522	AC	25-Jun-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5062422	JH	25-Jun-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %	71.5-134		5062422	JH	25-Jun-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
<b>DRO &gt;C10-C28*</b>	<b>15.8</b>		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.4 %	44.4-145		5062501	MS	25-Jun-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.0 %	40.6-153		5062501	MS	25-Jun-25	8015B	
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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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

**DS 05 0.25'**  
**H253754-06 (Soil)**

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

<b>Chloride</b>	<b>48.0</b>		16.0	mg/kg	4	5062522	AC	25-Jun-25	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5062422	JH	25-Jun-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5062422	JH	25-Jun-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			111 %	71.5-134		5062422	JH	25-Jun-25	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5062501	MS	25-Jun-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.2 %	44.4-145		5062501	MS	25-Jun-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.3 %	40.6-153		5062501	MS	25-Jun-25	8015B	
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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  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 5062522 - 1:4 DI Water</b>									
<b>Blank (5062522-BLK1)</b>				Prepared & Analyzed: 25-Jun-25					
Chloride	ND	16.0	mg/kg						
<b>LCS (5062522-BS1)</b>				Prepared & Analyzed: 25-Jun-25					
Chloride	400	16.0	mg/kg	400		100	80-120		
<b>LCS Dup (5062522-BSD1)</b>				Prepared & Analyzed: 25-Jun-25					
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20

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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5062422 - Volatiles****Blank (5062422-BLK1)**

Prepared: 24-Jun-25 Analyzed: 25-Jun-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0559		mg/kg	0.0500		112	71.5-134			

**LCS (5062422-BS1)**

Prepared: 24-Jun-25 Analyzed: 25-Jun-25

Benzene	2.04	0.050	mg/kg	2.00		102	76.3-129			
Toluene	2.09	0.050	mg/kg	2.00		104	84.1-129			
Ethylbenzene	2.15	0.050	mg/kg	2.00		107	80.1-133			
m,p-Xylene	4.18	0.100	mg/kg	4.00		105	81.4-134			
o-Xylene	2.11	0.050	mg/kg	2.00		105	81.4-133			
Total Xylenes	6.29	0.150	mg/kg	6.00		105	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		100	71.5-134			

**LCS Dup (5062422-BSD1)**

Prepared: 24-Jun-25 Analyzed: 25-Jun-25

Benzene	1.97	0.050	mg/kg	2.00		98.6	76.3-129	3.30	15.8	
Toluene	2.01	0.050	mg/kg	2.00		100	84.1-129	3.89	15.9	
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	80.1-133	4.32	16	
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	81.4-134	3.48	16.2	
o-Xylene	2.02	0.050	mg/kg	2.00		101	81.4-133	4.03	16.7	
Total Xylenes	6.07	0.150	mg/kg	6.00		101	81.5-134	3.67	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.9	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

ENSOLUM  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220

Project: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Manager: SAMANTHA MACKENZIE  
Fax To:

Reported:  
10-Jul-25 18:03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5062501 - General Prep - Organics****Blank (5062501-BLK1)**

Prepared &amp; Analyzed: 25-Jun-25

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	53.6		mg/kg	50.0		107	44.4-145			
Surrogate: 1-Chlorooctadecane	54.1		mg/kg	50.0		108	40.6-153			

**LCS (5062501-BS1)**

Prepared &amp; Analyzed: 25-Jun-25

GRO C6-C10	201	10.0	mg/kg	200		100	81.5-123			
DRO >C10-C28	209	10.0	mg/kg	200		105	77.7-122			
Total TPH C6-C28	410	10.0	mg/kg	400		102	80.9-121			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0		103	44.4-145			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	40.6-153			

**LCS Dup (5062501-BSD1)**

Prepared &amp; Analyzed: 25-Jun-25

GRO C6-C10	203	10.0	mg/kg	200		101	81.5-123	0.995	13	
DRO >C10-C28	206	10.0	mg/kg	200		103	77.7-122	1.57	15.6	
Total TPH C6-C28	409	10.0	mg/kg	400		102	80.9-121	0.306	18.5	
Surrogate: 1-Chlorooctane	55.2		mg/kg	50.0		110	44.4-145			
Surrogate: 1-Chlorooctadecane	56.4		mg/kg	50.0		113	40.6-153			

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**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager





10f1

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Ensolum LLC</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Samantha Mackenzie</u>				P.O. #: <u>4502695197</u>				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX B21</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH B015</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chloride 4500</div> </div>											
Address: <u>3122 National Parks Hwy</u>				Company: <u>Oxy</u>															
City: <u>Carlsbad</u> State: <u>NM</u> Zip: <u>88220</u>				Attn: <u>Jessica Keene/Daniel</u>															
Phone #: <u>703-357-3545</u> Fax #:				Address: <u>Paris</u>															
Project #: <u>03B1417303</u> Project Owner:				City:															
Project Name: <u>Lost Tank 25 CGL</u>				State: Zip:															
Project Location:				Phone #:															
Sampler Name: <u>Sherelle Brooks/Jaden Engels</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth	(GRAB OR (COMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME					
<u>H253754</u>	<u>DS01</u>	<u>* BGS</u>	<u>0.25'</u>	<u>0</u>		<u>X</u>					<u>X</u>		<u>6/19/25</u>	<u>09:57</u>	<u>X</u>	<u>X</u>			
<u>1</u>	<u>DS02</u>	<u>I</u>	<u>I</u>			<u>I</u>					<u>I</u>		<u>10:44</u>	<u>10:55</u>	<u>I</u>	<u>I</u>			
<u>2</u>	<u>DS06</u>	<u>I</u>	<u>I</u>			<u>I</u>					<u>I</u>		<u>11:22</u>	<u>11:25</u>	<u>I</u>	<u>I</u>			
<u>3</u>	<u>DS03</u>	<u>I</u>	<u>I</u>			<u>I</u>					<u>I</u>		<u>11:29</u>	<u>11:29</u>	<u>I</u>	<u>I</u>			
<u>4</u>	<u>DS04</u>	<u>I</u>	<u>I</u>			<u>I</u>					<u>I</u>				<u>I</u>	<u>I</u>			
<u>5</u>	<u>DS05</u>	<u>I</u>	<u>I</u>			<u>I</u>					<u>I</u>				<u>I</u>	<u>I</u>			
<u>6</u>																			

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Relinquished By: <u>Jaden Engels</u>	Date: <u>6/23/25</u>	Received By: <u>apenas</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
	Time:		<u>Smackenzie@ensolum.com, sbrooks@ensolum.com</u>
	Date:		REMARKS:
	Time:		<u>*Customer requested Depth changes</u>
Delivered By: (Circle One)	Observed Temp. °C <u>22</u>	Sample Condition	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>25</u>	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition
		CHECKED BY: (Initials) <u>AA</u>	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
			Observed Temp. °C
			Corrected Temp. °C
			Thermometer ID #140
			Correction Factor +0.3°C

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



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

July 08, 2025

SAMANTHA MACKENZIE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: LOST TANK 25 CGL

Enclosed are the results of analyses for samples received by the laboratory on 07/01/25 12:19.

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  
SAMANTHA MACKENZIE  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 07/01/2025  
Reported: 07/08/2025  
Project Name: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Location: OXY

Sampling Date: 07/01/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 05 0.5' (H253965-01)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2025	ND	2.02	101	2.00	2.29	
Toluene*	<0.050	0.050	07/01/2025	ND	2.19	110	2.00	2.19	
Ethylbenzene*	<0.050	0.050	07/01/2025	ND	2.03	101	2.00	0.961	
Total Xylenes*	<0.150	0.150	07/01/2025	ND	6.10	102	6.00	1.57	
Total BTEX	<0.300	0.300	07/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/02/2025	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	07/01/2025	ND	189	94.3	200	1.71	
DRO >C10-C28*	<10.0	10.0	07/01/2025	ND	204	102	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	07/01/2025	ND					

Surrogate: 1-Chlorooctane 98.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.2 % 40.6-153

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



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**Analytical Results For:**

ENSOLUM  
SAMANTHA MACKENZIE  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 07/01/2025  
Reported: 07/08/2025  
Project Name: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Location: OXY

Sampling Date: 07/01/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 06 0.5' (H253965-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2025	ND	2.02	101	2.00	2.29	
Toluene*	<0.050	0.050	07/01/2025	ND	2.19	110	2.00	2.19	
Ethylbenzene*	0.190	0.050	07/01/2025	ND	2.03	101	2.00	0.961	GC-NC1
Total Xylenes*	1.16	0.150	07/01/2025	ND	6.10	102	6.00	1.57	GC-NC1
Total BTEx	1.35	0.300	07/01/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	07/02/2025	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*	64.5	10.0	07/01/2025	ND	189	94.3	200	1.71	
DRO >C10-C28*	2210	10.0	07/01/2025	ND	204	102	200	2.87	
EXT DRO >C28-C36	492	10.0	07/01/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 157 % 40.6-153

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





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**Analytical Results For:**

ENSOLUM  
SAMANTHA MACKENZIE  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 07/01/2025  
Reported: 07/08/2025  
Project Name: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Location: OXY

Sampling Date: 07/01/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: FS 07 1' (H253965-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2025	ND	2.02	101	2.00	2.29	
Toluene*	<0.050	0.050	07/01/2025	ND	2.19	110	2.00	2.19	
Ethylbenzene*	<0.050	0.050	07/01/2025	ND	2.03	101	2.00	0.961	
Total Xylenes*	<0.150	0.150	07/01/2025	ND	6.10	102	6.00	1.57	
Total BTEX	<0.300	0.300	07/01/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/02/2025	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	07/01/2025	ND	189	94.3	200	1.71	
DRO >C10-C28*	<10.0	10.0	07/01/2025	ND	204	102	200	2.87	
EXT DRO >C28-C36	15.1	10.0	07/01/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.9 % 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  
SAMANTHA MACKENZIE  
3122 NATIONAL PARKS HWY  
CARLSBAD NM, 88220  
Fax To:

Received: 07/01/2025  
Reported: 07/08/2025  
Project Name: LOST TANK 25 CGL  
Project Number: 03B1417303  
Project Location: OXY

Sampling Date: 07/01/2025  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: SW 03 0-1' (H253965-04)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/01/2025	ND	2.02	101	2.00	2.29		
Toluene*	<0.050	0.050	07/01/2025	ND	2.19	110	2.00	2.19		
Ethylbenzene*	<0.050	0.050	07/01/2025	ND	2.03	101	2.00	0.961		
Total Xylenes*	<0.150	0.150	07/01/2025	ND	6.10	102	6.00	1.57		
Total BTEX	<0.300	0.300	07/01/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/02/2025	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	07/01/2025	ND	189	94.3	200	1.71	
DRO >C10-C28*	44.1	10.0	07/01/2025	ND	204	102	200	2.87	
EXT DRO >C28-C36	15.7	10.0	07/01/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.4 % 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

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-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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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Ensolum LLC</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Samantha Mackenzie</u>				P.O. #: <u>4502695197</u>				<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <u>BTEX 8021</u>  <u>TPH 8015</u>  <u>Chloride 4500</u> </div> <div style="width: 65%;"></div> </div>											
Address: <u>601 N Mainfield St. #400</u>				Company: <u>Oxy</u>															
City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u>				Attn: <u>Jessica Kent/Daniel</u>															
Phone #: <u>703-357-3545</u> Fax #:				Address: <u>Sparks</u>															
Project #: <u>03B1417303</u> Project Owner:				City:															
Project Name: <u>Lost Tank 25 CDL</u>				State: Zip:															
Project Location:				Phone #:															
Sampler Name: <u>Sherale Brooks, Elizabeth Alvarez</u>				Fax #:															

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	Sample Depth	(GRAB OR C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	BTEX 8021	TPH 8015	Chloride 4500
GROUNDWATER	WASTEWATER						SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :							
		<u>H953965</u>																		
		<u>1</u>	<u>FS05</u>	<u>0.5'</u>	<u>C</u>	<u>1</u>			<u>X</u>				<u>X</u>		<u>7/11/25</u>	<u>10:13</u>	<u>X</u>	<u>X</u>	<u>X</u>	
		<u>2</u>	<u>FS06</u>	<u>0.5'</u>	<u>1</u>	<u>1</u>							<u>1</u>		<u>10:44</u>		<u>1</u>	<u>1</u>	<u>1</u>	
		<u>3</u>	<u>FS07</u>	<u>1'</u>	<u>1</u>	<u>1</u>							<u>1</u>		<u>10:21</u>		<u>1</u>	<u>1</u>	<u>1</u>	
		<u>4</u>	<u>SW03</u>	<u>0-1'</u>	<u>1</u>	<u>1</u>							<u>1</u>		<u>11:02</u>		<u>1</u>	<u>1</u>	<u>1</u>	

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Relinquished By: <u>Sherale Brooks</u>	Date: <u>7-1-25</u>	Received By: <u>Samantha Mackenzie</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <u>12:19</u>			All Results are emailed. Please provide Email address:
Relinquished By: <u>Elizabeth Alvarez</u>	Date:	Received By:	<u>smackenzie@ensolum.com, sbrooks@ensolum.com</u>
Time:			REMARKS:
Delivered By: (Circle One)	Observed Temp. °C <u>1.7</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>JS</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>2.0</u>		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
			Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No
			Thermometer ID #140 Correction Factor +0.3°C
			Observed Temp. °C
			Corrected Temp. °C

FORM-000 R 3.0 02/12/25

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





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

August 25, 2025

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LOST TANK 25 CGL

Enclosed are the results of analyses for samples received by the laboratory on 08/19/25 14:00.

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  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/19/2025  
 Reported: 08/25/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: OXY 32.360084,-103.832143

Sampling Date: 08/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS06 3' (H255135-01)**

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	08/20/2025	ND	1.58	79.1	2.00	5.36		
Toluene*	<0.050	0.050	08/20/2025	ND	1.68	83.8	2.00	7.70		
Ethylbenzene*	<0.050	0.050	08/20/2025	ND	1.70	85.2	2.00	8.73		
Total Xylenes*	<0.150	0.150	08/20/2025	ND	5.19	86.6	6.00	8.67		
Total BTX	<0.300	0.300	08/20/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/20/2025	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	08/19/2025	ND	199	99.6	200	1.85	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	194	96.9	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.6 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 SAMANTHA MACKENZIE  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/19/2025  
 Reported: 08/25/2025  
 Project Name: LOST TANK 25 CGL  
 Project Number: 03B1417303  
 Project Location: OXY 32.360084,-103.832143

Sampling Date: 08/15/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW04 0-3' (H255135-02)**

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	08/20/2025	ND	1.58	79.1	2.00	5.36		
Toluene*	<0.050	0.050	08/20/2025	ND	1.68	83.8	2.00	7.70		
Ethylbenzene*	<0.050	0.050	08/20/2025	ND	1.70	85.2	2.00	8.73		
Total Xylenes*	<0.150	0.150	08/20/2025	ND	5.19	86.6	6.00	8.67		
Total BTEX	<0.300	0.300	08/20/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2025	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	08/19/2025	ND	199	99.6	200	1.85	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	194	96.9	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane 72.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.4 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

FORM-006 R 3.2 10/07/21

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

August 29, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: CORRAL FLY 35 -26 FED CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/28/25 10:05.

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' at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

ENSOLUM, LLC  
 KELLY LOWERY  
 705 W WADLEY AVE.  
 MIDLAND TX, 79705  
 Fax To:

Received: 08/28/2025  
 Reported: 08/29/2025  
 Project Name: CORRAL FLY 35 -26 FED CTB  
 Project Number: 03B1417230  
 Project Location: OXY 32.163677, -103.954141

Sampling Date: 08/28/2025  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: BF 01 (H255361-01)**

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	08/28/2025	ND	1.68	83.8	2.00	7.26	
Toluene*	<0.050	0.050	08/28/2025	ND	1.79	89.7	2.00	6.29	
Ethylbenzene*	<0.050	0.050	08/28/2025	ND	1.82	91.0	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/28/2025	ND	5.36	89.4	6.00	4.76	
Total BTX	<0.300	0.300	08/28/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/29/2025	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	08/28/2025	ND	191	95.3	200	1.79	
DRO >C10-C28*	<10.0	10.0	08/28/2025	ND	189	94.6	200	3.75	
EXT DRO >C28-C36	<10.0	10.0	08/28/2025	ND					

Surrogate: 1-Chlorooctane 70.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 66.1 % 40.6-153

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

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

Cardinal Laboratories

\*=Accredited Analyte

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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

(575) 393-2326 FAX (575) 393-2476				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Company Name Ensolum				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div>TPH 8015</div> <div>BTEX 8021</div> <div>Chloride 4500</div> </div>											
Project Manager: Kelly Lowery				Company OXY USA, Inc															
Address: 601 N. Marienfeld St STE 400				Attn: Daniel Sparks															
City: Midland St TX Zip: 79701				Address:															
Phone #: 214-733-3165 Fax #:				City:															
Project #: 03B1447120 NC 03B1447230 Project Owner: OXY				State: Zip:															
Project Name: Federal 23-11 CTB Corral Fly 35-26 Fed. CTB				Phone #:				<div style="display: flex; justify-content: space-between;"> <div>Uc</div> <div>NFE</div> <div>08/28/25</div> </div>											
Project Location: Eddy County, NM				Fax #:															
Sampler Name: Nicolas Christakos																			
FOR LAB USE ONLY																			
Lab I.D.																			
Sample I.D.																			
Sample Depth																			
(GRAB OR (C)OMP. # CONTAINERS																			
MATRIX																			
GROUNDWATER																			
WASTEWATER																			
SOIL																			
OIL																			
SLUDGE																			
OTHER :																			
ACID/BASE:																			
ICE / COOL																			
OTHER :																			
DATE				TIME															
08/28/25				0855															

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Relinquished By: <u>Nicholas Christakos</u> Date: <u>8-28-25</u> Time: <u>1005</u>		Received By: <u>Spodkigney</u> Date: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: <u>Klowery@ensolum.com</u> <u>Nchristakos@ensolum.com</u>	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		REMARKS: _____ _____ _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ FORM-006 R 3.6 02/12/25		Observed Temp. °C <u>29.2</u> Corrected Temp. °C <u>3.2</u>		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
		CHECKED BY: (Initials) <u>SK</u>		Turnaround Time: <u>24 hr</u> Thermometer ID #140 Correction Factor +0.3°C	
				Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	
				Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

QUESTIONS

Action 521692

**QUESTIONS**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 521692
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2512130347
Incident Name	NAPP2512130347 LOST TANK 25 CGL @ K-25-22S-31E
Incident Type	Fire
Incident Status	Remediation Closure Report Received

**Location of Release Source**

Please answer all the questions in this group.

Site Name	LOST TANK 25 CGL
Date Release Discovered	04/08/2025
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

Incident Type	Fire
Did this release result in a fire or is the result of a fire	Yes
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: Fire   Flow Line - Production   Crude Oil   Released: 1 BBL   Recovered: 0 BBL   Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Fire   Flow Line - Production   Produced Water   Released: 2 BBL   Recovered: 0 BBL   Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 521692

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 521692
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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	No
--	----

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QUESTIONS, Page 3

Action 521692

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	521692
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

**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	NM OSE iWaters Database Search
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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 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)	416
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	16565
GRO+DRO (EPA SW-846 Method 8015M)	13815
BTEX (EPA SW-846 Method 8021B or 8260B)	2
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	06/06/2025
On what date will (or did) the final sampling or liner inspection occur	08/15/2025
On what date will (or was) the remediation complete(d)	09/08/2025
What is the estimated surface area (in square feet) that will be reclaimed	2420
What is the estimated volume (in cubic yards) that will be reclaimed	110
What is the estimated surface area (in square feet) that will be remediated	2420
What is the estimated volume (in cubic yards) that will be remediated	110
<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 521692

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 521692
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	<a href="#">fEEM0112342028 LEA LAND LANDFILL</a>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(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)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Daniel Sparks Title: Environmental Analyst III Email: <a href="mailto:daniel_sparks@oxy.com">daniel_sparks@oxy.com</a> Date: 10/30/2025
<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 521692

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 521692
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**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	No



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QUESTIONS, Page 6

Action 521692

**QUESTIONS (continued)**

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 521692
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	495589
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/15/2025
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	2388

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2420
What was the total volume (cubic yards) remediated	110
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2420
What was the total volume (in cubic yards) reclaimed	110
Summarize any additional remediation activities not included by answers (above)	NA
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Daniel Sparks Title: Environmental Analyst III Email: daniel_sparks@oxy.com Date: 10/30/2025

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Action 521692

QUESTIONS (continued)

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	Action Number:  521692
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 521692

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 521692
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	12/30/2025