



June 2, 2026

New Mexico Oil Conservation Division

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

**Re: Remediation Work Plan
NMGSAU 1509
Incident Number nAPP2532859409
Hilcorp Energy Company
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), has prepared this *Remediation Work Plan (Work Plan)* to document delineation and soil sampling activities performed at the NMGSAU 1509 (Site). The purpose of the delineation and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a release of produced water at the Site. This *Work Plan* includes a summary of delineation activities completed to date and proposes lateral delineation activities.

SITE BACKGROUND

The Site was originally reported as being associated with NMGSAU 1507 but was later requested via email to be updated to the correct Site name of NMGSAU 1509 and will be referred to in this *Work Plan* as such. The Site is located in Unit I, Section 31, Township 19 South, Range 37 East in Lea County, New Mexico (32.61501°, -103.28443°) and is associated with oil and gas exploration and production operations on private land.

On November 24, 2025, Hilcorp personnel discovered the release of approximately 40 barrels (bbls) of produced water onto the surrounding pad surface and pasture area resulting from flow line corrosion. No released fluids were recovered. Hilcorp reported the release to the New Mexico Oil Conservation Division (NMOCD) via *Notification of Release (NOR)* on November 24, 2025, and an *Initial C-141 Application (C-141)* on December 9, 2025. The release was assigned Incident Number nAPP2532859409.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well is

New Mexico Office of the State Engineer (NMOSE) permitted well L-1267. Well L-1267 is located approximately 0.18 miles southwest of the Site with a reported depth to groundwater of 28 feet bgs and total depth of 42 feet bgs in October 1936. An additional groundwater well (L-13491-POD1) is located 0.23 miles southeast of the Site with total depth of 30 feet bgs and no groundwater encountered on February 4, 2014. The referenced Well Records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 3,670 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area).

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

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

DELINEATION SOIL SAMPLING ACTIVITIES

On December 19, 2025, Ensolum evaluated the release extent based on visual observations and information provided by Hilcorp. Thirteen assessment soil samples (SS01 through SS13) were collected within the release extent from a depth of approximately 0.5 feet bgs to assess for the presence or absence of impacted soil. In addition, thirteen assessment soil samples (LS01 through LS13) were collected around the release extent to establish the lateral extent of impacted soil. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and assessment soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit, and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratory in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 4500.

Laboratory analytical results for assessment soil samples SS01 through SS13, with the exception of SS07, collected within the release extent, indicated that TPH and/or chloride concentrations exceeded the Site Closure Criteria. Laboratory analytical results for assessment soil samples SS07, LS01 through LS13, with the exception of LS11, indicated that all COC concentrations are compliant with the Site Closure Criteria and successfully defined the lateral extent of the release. Assessment soil sample LS11 indicated TPH concentrations exceeded Site Closure Criteria.

Between January 23, 2026, and March 5, 2026, Ensolum returned to the Site to conduct additional delineation activities. One assessment soil sample, LS11A, was collected approximately 10 feet to the north of LS11 to confirm the lateral extent of the release. Fourteen boreholes, BH01 through BH14, were advanced within the release extents to depths ranging from 3 feet bgs to a maximum depth of 11 feet bgs to assess the vertical extent of the release. Soil samples collected from the boreholes were field screened for VOCs and chloride. Soil samples were handled, transported, and analyzed by the above-mentioned methods.

Laboratory analytical results for delineation soil samples collected from BH01 through BH08, BH10, BH13, and BH14 indicated that all COCs were compliant with the Site Closure Criteria at the terminal depths. Delineation soil samples collected from the terminal depths of BH09, BH11, and BH12 indicated chloride concentrations exceeded Site Closure Criteria. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included as Appendix C. Based on visible staining and laboratory analytical results, additional remediation activities were warranted.

PROPOSED REMEDIATION WORK PLAN

Based on the soil sampling results described above, it is estimated impacted soil is present at the Site across an approximate area of 17,525 square feet and extending to depths ranging from 3 feet bgs to greater than 11 feet bgs. Hilcorp proposes to complete the following remediation activities:

- Excavation of impacted soil to depths ranging from 4 feet to greater than 11 feet bgs.
 - Excavation will proceed until confirmation soil samples confirm all COC concentrations are compliant with the Closure Criteria.
- Confirmation composite soil samples will be collected from the floor and sidewalls at a sampling frequency representing no more than 200 square feet.
- An estimated 3,000 cubic yards of impacted soil will be excavated and disposed of at a New Mexico approved disposal facility.
- The excavation will be backfilled with locally procured material and recontoured to match pre-existing conditions. Pasture areas will be reseeded with an approved seed mix.

Hilcorp will complete the excavation activities within 90 days of the date of approval of this *Work Plan* by the NMOCDD. A final report will be submitted within 90 days of receipt of final laboratory analytical results. Hilcorp believes the scope of work described above meets the requirements set forth in 19.15.29 NMAC and is protective of human health, the environment, and groundwater. As such, Hilcorp respectfully requests approval of this *Work Plan* for Incident Number nAPP2532859409.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely,

Ensolum, LLC



Tracy Hillard
Project Engineer



Kalei Jennings
Senior Managing Scientist



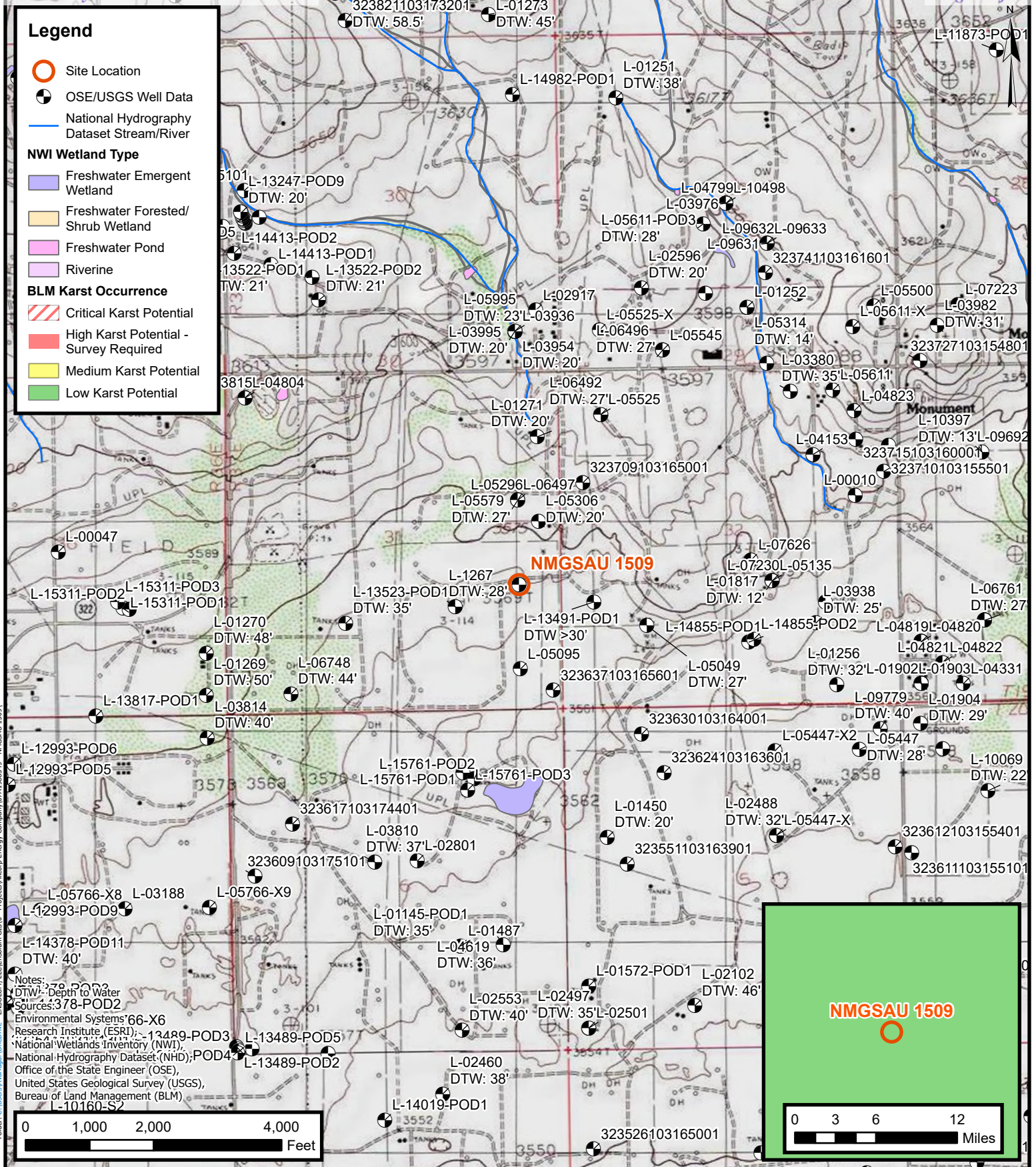
cc: Billy Ginn, Hilcorp Energy Company

Appendices:

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



FIGURES



Site Receptor Map

NMGSAU 1509

Hilcorp Energy Company
Incident Number nAPP2532859409
31.7429812, -101.8908707
Lea County, New Mexico

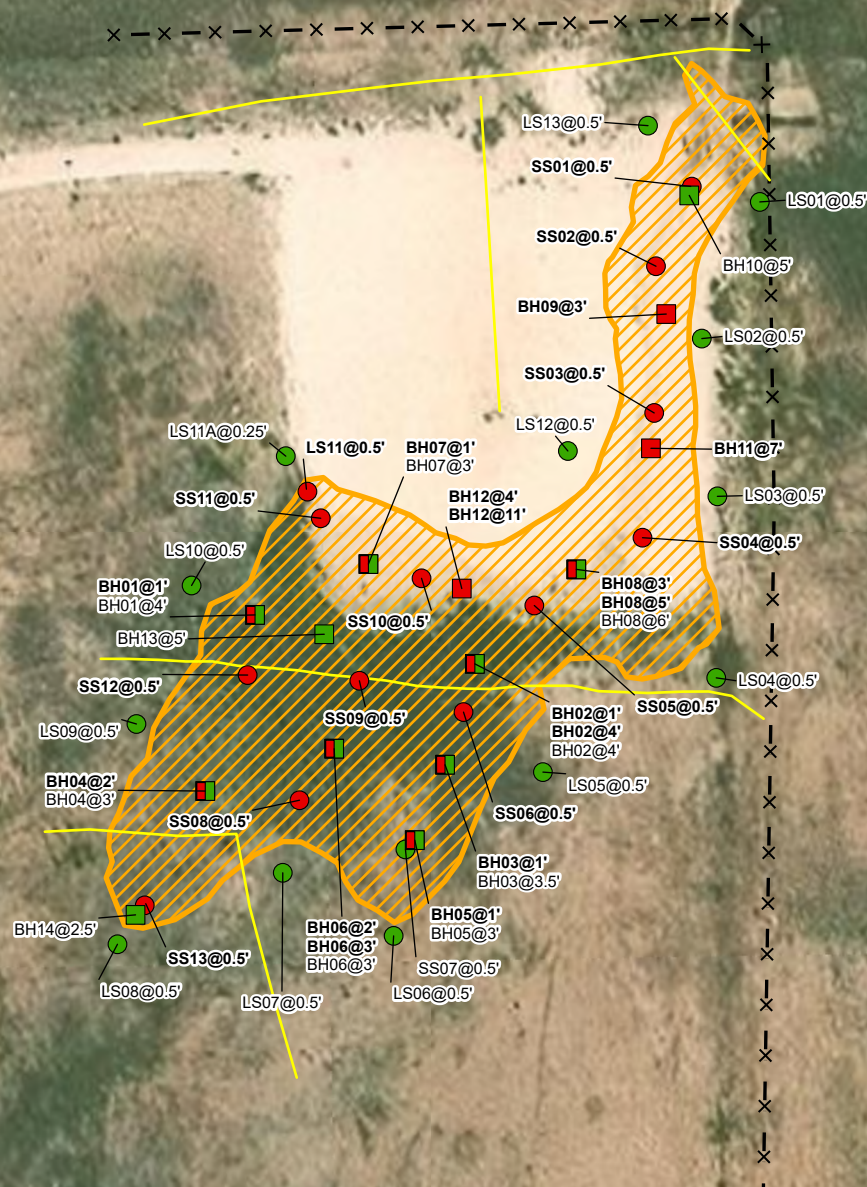
FIGURE

1



Legend

- Assessment Soil Sample in Compliance with Closure Criteria
- Assessment Soil Sample with Concentrations Exceeding Closure Criteria
- Delineation Borehole Sample in Compliance with Closure Criteria
- Delineation Borehole Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Borehole Sample with Concentrations Exceeding Closure Criteria
- Oil and Gas Utility Line
- × — Fence
- Release Extent/
Proposed Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Concentrations in **bold** exceed the
 NMOCD Table I Closure Criteria or reclamation standard where applicable.

0 15 30 60 90 120
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

NMGS AU 1509
 Hilcorp Energy Company
 Incident Number nAPP2532859409
 32.61501, -103.28443
 Lea County, New Mexico

FIGURE
 2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 NMGSAU 1509
 Hilcorp Energy Company
 Lea County, New Mexico

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)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	12/19/2025	0.5	<0.050	<0.300	<10.0	592	122	592	714	691
SS02	12/19/2025	0.5	<0.050	<0.300	<10.0	99.3	20.8	99.3	120	1,170
SS03	12/19/2025	0.5	<0.050	<0.300	<10.0	1,130	276	1,130	1,406	1,100
SS04	12/19/2025	0.5	<0.050	<0.300	<10.0	116	30.3	116	141	1,020
SS05	12/19/2025	0.5	<0.050	<0.300	<10.0	42.7	<10.0	42.7	42.7	940
SS06	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	988
SS07	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
SS08	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
SS09	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,090
SS10	12/19/2025	0.5	<0.050	<0.300	<10.0	28.0	<10.0	28.0	28.0	929
SS11	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,040
SS12	12/19/2025	0.5	<0.050	<0.300	<10.0	12.9	<10.0	12.9	12.9	1,330
SS13	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
LS01	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	24.8
LS02	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	343
LS03	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	12.4
LS04	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	175
LS05	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	231
LS06	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
LS07	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
LS08	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
LS09	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
LS10	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
LS11	12/19/2025	0.5	<0.050	<0.300	<10.0	281	199	281	480	<10.0
LS11A	2/16/2026	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 NMGSAU 1509
 Hilcorp Energy Company
 Lea County, New Mexico

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)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCB Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
LS12	12/19/2025	0.5	<0.050	<0.300	<10.0	14.2	<10.0	14.2	14.2	246
LS13	12/19/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Delineation Soil Samples										
BH01	1/23/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
	1/23/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
BH02	1/23/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
	1/23/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	880
	3/5/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
BH03	1/23/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	816
	1/23/2026	3.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
BH04	1/23/2026	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,040
	1/23/2026	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
BH05	1/23/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
	1/23/2026	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
BH06	1/23/2026	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	928
	1/23/2026	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
	3/5/2026	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
BH07	1/28/2026	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
	1/28/2026	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
BH08	1/28/2026	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
	1/28/2026	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
	3/5/2026	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
BH09	1/28/2026	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784
BH10	2/16/2026	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
BH11	3/5/2026	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640



TABLE 1
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 Hilcorp Energy Company
 Lea County, New Mexico

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)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
BH12	2/16/2026	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
	3/5/2026	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
BH13	3/5/2026	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
BH14	2/16/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304

Notes:

bgs: below ground surface

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

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.**Grey** text represents samples that have been excavated



APPENDIX A

Referenced Well Record

(This form to be executed in triplicate)

WELL RECORD

Date of Receipt..... Permit No. L-1267Name of permittee, Gulf Oil CorporationStreet or P.O., Box 1290, City and State Fort Worth, Texas1. Well location and description: The shallow well is located in SE $\frac{1}{4}$, NW $\frac{1}{4}$,
(shallow or artesian)SE $\frac{1}{4}$ of Section 31, Township 19-S, Range 37-E; Elevation of top ofcasing above sea level, Unknown feet; diameter of hole, Unknown inches; total depth, 42 feet;depth to water upon completion, 28 feet; drilling was commenced Unknown, 19.....and completed 10-30-56, 19.....; name of drilling contractor Gene R. Burko; Address Hobbs, N. M.; Driller's License No. Unknown

2. Principal Water-bearing Strata:

	Depth in Feet		Thickness	Description of Water-bearing Formation
	From	To		
No. 1	<u>28</u>	<u>32</u>	<u>4</u>	<u>Sand</u>
No. 2				
No. 3				
No. 4				
No. 5				

3. Casing Record:

Diameter in inches	Pounds per ft.	Threads per inch	Depth of Casing or Liner		Feet of Casing	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>6"</u>	<u>Unknown</u>	<u>0</u>	<u>44</u>	<u>44</u>	<u>44</u>	<u>None</u>	<u>32</u>	<u>38</u>

4. If above construction replaces old well to be abandoned, give location:..... $\frac{1}{4}$, ... $\frac{1}{4}$, ... $\frac{1}{4}$

of Section....., Township....., Range.....; name and address of plugging contractor,

date of plugging....., 19.....; describe how well was plugged:

FILED

DEC 2 1952

19.37.31-41420

19.37.31-41420

[illegible]

Gene R. Burke
 Licensed Well Driller

Released to Imaging: 6/9/2026 1:59:59 PM

480852

(This form to be executed in triplicate)

PROOF OF COMPLETION OF WORKS

UNDERGROUND WATERS

Date of Receipt August 7, 1953. Permit No. L-1267

1. Name of permittee Gulf Oil Corp.

P. O. address Box 2167, City and State Hobbs, N.M.

Permit No. L-1267 to Appropriate
(appropriate, repair well, change location of well)

in the Lea County Basin
(name of underground reservoir, artesian basin, etc.)

2. Description of well: location, SE $\frac{1}{4}$, NE $\frac{1}{4}$, SE $\frac{1}{4}$, of Section 31,
Township 19S, Range 37E; total depth, 42 feet; outside diameter of top casing
6 inches; if artesian, is well equipped with gate valve? _____; name
and address of driller, Gene R. Burke, Hobbs, N.M.
Date drilled, 10-30-36, 19____

3. Record of Pumping Test (to be supplied by person or firm making test; Name and address of person making
test, Gene R. Burke,
date of test, 11-5-36, 19____; depth to water before test, _____ feet, and im-
mediately afterward _____ feet; Length of test, _____ hours; average discharge, _____ G.P.M.;
Specific capacity of well, _____ gal. per min. per ft. of drawdown.

4. Description of pump: Make, windmill - make unknown
type, windmill; if turbine type, give size of column, _____ inches; diameter of
bowls _____ inches; number of bowls _____; length of suction pipe, _____ feet; total
length of column, bowls and suction pipe, _____ feet; if centrifugal type, give size of pump _____
inches; if other type, describe, _____
rated capacity of pump (if known) _____ G.P.M., at _____ rev. per min., from a depth of _____ feet.

5. Description of power plant: make, windmill
type, _____; rated horsepower (if available) _____; type of drive connection
to pump, _____; date of installation of power plant, _____, 19____

6. Actual discharge of pump, unknown G.P.M., at _____ rev. per min., from a depth of _____ feet;
Date of test _____, 19____; Name and address of dealer supplying pump and power
plant, unknown

FILED
AUG 18 1953
ARTESIAN WELL SUPERVISOR
ROSWELL, NEW MEXICO

STATE ENGINEER-Santa Fe, N. M.
RECEIVED
AUG 7 1953
1 2 3 4 5 6

- oil well drilling
7. Permit acreage to be served by well, _____ acres, to receive a total of _____ acre feet of water allowed by permit.
8. The distribution system consists of overnight storage reservoir no _____ feet of main canal;
(yes or no)
give approximate capacity of reservoir or tank (if any) _____ cubic feet.
9. If above construction replaces an old well to be plugged or abandoned, fill out the following: the well abandoned is located in the _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ of Section _____, Township _____, Range _____;
Name of plugging contractor, Gulf Oil Corp. _____;
Well was plugged in accordance with terms of permit 6-12-53, 19____.
10. Give date "Well Record" was filed with State Engineer's Office, _____, 19____.
11. Pump and power plant were installed and works completed _____, 19____.

The undersigned, owner and holder of Permit No. L-1267, being first duly sworn upon his oath, states that he has read the foregoing statements and that the same are true to the best of his knowledge and belief.

GULF OIL CORPORATION

BY:

CHAS. TAYLOR

Subscribed and sworn to before me this 31st day of July, 1953.

My commission expires 9-24-56 _____
Notary Public

Affidavit of State Engineer's Representative

I hereby certify that I have duly inspected the above Works and find them adequate and properly constructed according to the terms and conditions of the permit. Note any exceptions _____

Groundwater Supervisor or other representative of State Engineer

Date, _____, 19____.

DEC 15 1952

(This form to be executed in triplicate)

PROOF OF COMPLETION OF WORKS

UNDERGROUND WATERS

STATE ENGINEER

486852

Date of Receipt December 15, 1952. Permit No. I-12671. Name of permittee Gulf Oil CorporationP. O. address Box 1290, City and State Fort Worth, TexasPermit No. I-1267 to appropriate
(appropriate, repair well, change location of well)In the Lea County Basin
(name of underground reservoir, artesian basin, etc.)2. Description of well: location, SE $\frac{1}{4}$, NW $\frac{1}{4}$, SE $\frac{1}{4}$ of Section 31Township 19S, Range 37E; total depth, 42 feet; outside diameter of top casing(or hole, if uncased) 6 inches; if artesian, is well equipped with gate valve? _____; nameand address of driller, Gene R. Burke, Hobbs, N. M.Date drilled, 10-30-36, 19____

3. Record of Pumping Test (to be supplied by person or firm making test; Name and address of person making

test, Gene R. Burke, Hobbs, N. M.date of test, 11-5-36, 19____; depth to water before test, Unknown feet, and im-mediately afterward, Unknown feet; Length of test Unknown hours; average discharge, Unknown G.P.M.;Specific capacity of well, Unknown gal. per min. per ft. of drawdown.4. Description of pump: Make, Windmill - unknown maketype, Windmill; if turbine type, give size of column, _____ inches; diameter of

bowls _____ inches; number of bowls _____; length of suction pipe, _____ feet; total

length of column, bowls and suction pipe, _____ feet; if centrifugal type, give size of pump _____

inches; if other type, describe, _____

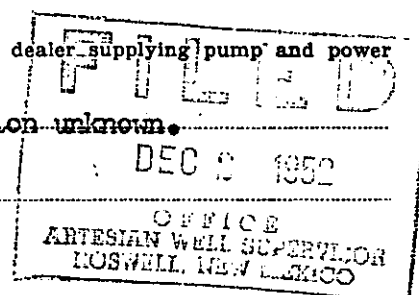
rated capacity of pump (if known) _____ G.P.M., at _____ rev. per min., from a depth of _____ feet.

5. Description of power plant: make, Windmill

type, _____; rated horsepower (if available) _____; type of drive connection

to pump, _____; date of installation of power plant, 11-5-36, 19____6. Actual discharge of pump, Unknown G.P.M., at _____ rev. per min., from a depth of _____ feet;

Date of test _____, 19____; Name and address of dealer supplying pump and power

plant, Name of dealer at time of installation unknown.

Oil Production

7. Permit acreage to be served by well, _____ acres, to receive a total of _____ acre feet of water allowed by permit.
8. The distribution system consists of overnight storage reservoir no and _____ feet of main canal;
(yes or no)
give approximate capacity of reservoir or tank (if any) _____ cubic feet.
9. If above construction replaces an old well to be plugged or abandoned, fill out the following: the well abandoned is located in the _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ of Section _____, Township _____, Range _____;
Name of plugging contractor, _____;
Well was plugged in accordance with terms of permit _____, 19____.
10. Give date "Well Record" was filed with State Engineer's Office, _____, 19____.
11. Pump and power plant were installed and works completed 11-5-36, 19____.

The undersigned, owner and holder of Permit No. _____, being first duly sworn upon his oath, states that he has read the foregoing statements and that the same are true to the best of his knowledge and belief.

Chas. Taylor
Chas. Taylor
Area Prod. Supt.

Subscribed and sworn to before me this 24th day of November, 1952.

My commission expires 9-24-56

Bates Boles
Notary Public.

Affidavit of State Engineer's Representative

I hereby certify that I have duly inspected the above Works and find them adequate and properly constructed according to the terms and conditions of the permit. Note any exceptions _____

W. W. W.
Groundwater Supervisor or other representative of State Engineer.

Date, 12-12, 1952



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NUMBER (WELL NUMBER) (POD1) LF-59 MW-1A				OSE FILE NUMBER(S) L-13491			
	WELL OWNER NAME(S) PLAINS MARKETING LP				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 333 CLAY STREET, SUITE 1600				CITY HOUSTON		STATE TX	ZIP 77002
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 36	SECONDS 51	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	16	50	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE FROM CAFE GO W TO RAYMOND IN. GO S TO COOPER HOUSE FOLLOW GPS. UNIT L, NWSW, SEC 32, T19S, R37E, LEA CO NM.								
2. DRILLING & CASING INFORMATION	LICENSE NUMBER WD-1711		NAME OF LICENSED DRILLER EDWARD BRYAN			NAME OF WELL DRILLING COMPANY STRAUB CORPORATION		
	DRILLING STARTED 2-4-14	DRILLING ENDED 2-4-14	DEPTH OF COMPLETED WELL (FT) 30'	BORE HOLE DEPTH (FT) 30'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: ☒ AIR ☐ MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ 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	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	30'	10'	6"	SCH 40 .010 SCREEN	FJ	2"	0.154	.010
	10'	+43"	6"	SCH 40 RISER	FJ	2"	0.154	RISER
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	30'	8'	6"	6 BAGS OF 20/40 SAND		TOPLOAD		
	8'	2'	6"	1BAG OF 3/8 HOLEPLUG		TOPLOAD		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/08/2012)

FILE NUMBER L-13491	POD NUMBER 1	TRN NUMBER 538344
LOCATION L 19S.37E.32.3-1-3		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

FOR OSE INTERNAL USE



APPENDIX B

Photographic Log

**Photographic Log**

Hilcorp Energy Company
NMGSAU 1509
nAPP2532859409

<u>Photograph</u> 1	<u>Date</u> 11/26/2025	☉ 221°SW (T) LAT: 32.615064 LON: -103.284135 ±6ft ▲ 3577ft  Ensolum, LLC NMGSAU 1509 26 Nov 2025, 11:19:55 MST
<u>Description</u> Initial release staining		
<u>View</u> Southwest		
<u>Photograph</u> 2	<u>Date</u> 11/26/2025	☉ 23°NE (T) LAT: 32.614718 LON: -103.284235 ±6ft ▲ 3569ft  Ensolum, LLC NMGSAU 1509 26 Nov 2025, 11:30:29 MST
<u>Description</u> Initial release staining in pasture		
<u>View</u> Northeast		



ENSOLUM

Photographic Log

Hilcorp Energy Company

NMGSAU 1509

nAPP2532859409

<u>Photograph</u> 3	<u>Date</u> 12/19/2025	☼ 203°SW (T) LAT: 32.614999 LON: -103.284182 ±6ft ▲ 3568ft  Ensolum, LLC NMGSAU 1507 19 Dec 2025, 13:51:29 MST
<u>Description</u> Assessment activities; on pad		
<u>View</u> Southwest		
<u>Photograph</u> 4	<u>Date</u> 12/19/2025	☼ 316°NW (T) LAT: 32.614608 LON: -103.284423 ±9ft ▲ 3568ft  Ensolum, LLC NMGSAU 1507 19 Dec 2025, 13:53:27 MST
<u>Description</u> Assessment activities; in pasture		
<u>View</u> Northwest		



Photographic Log

Hilcorp Energy Company
NMGSAU 1509
nAPP2532859409

<u>Photograph</u> 5	<u>Date</u> 1/23/2026	
<u>Description</u> Delineation activities; near BH09		
<u>View</u> Southeast		
<u>Photograph</u> 6	<u>Date</u> 2/16/2026	
<u>Description</u> Delineation activities; near BH11		
<u>View</u> Southeast		



Photographic Log

Hilcorp Energy Company

NMGSAU 1509

nAPP2532859409

<u>Photograph</u> 7	<u>Date</u> 2/16/2026	East Elevation $\odot$ 261°W (T) $\odot$ 32.614579°N, 103.284707°W $\pm$13ft $\blacktriangle$ 3572ft  16 Feb 2026, 13:53:53
<u>Description</u> Delineation activities; near BH14		East Elevation $\odot$ 264°W (T) $\odot$ 32.614606°N, 103.284321°W $\pm$6ft $\blacktriangle$ 3573ft  05 Mar 2026, 14:24:50
<u>View</u> West		
<u>Photograph</u> 8	<u>Date</u> 3/5/2026	
<u>Description</u> Delineation activities; near BH05		
<u>View</u> West		



APPENDIX C

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

December 30, 2025

KARA NAEGELI

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: NMGSAU 1507

Enclosed are the results of analyses for samples received by the laboratory on 12/22/25 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/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,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01 0.5'	H257883-01	Soil	19-Dec-25 11:40	22-Dec-25 12:55
SS02 0.5'	H257883-02	Soil	19-Dec-25 11:42	22-Dec-25 12:55
SS03 0.5'	H257883-03	Soil	19-Dec-25 11:44	22-Dec-25 12:55
SS04 0.5'	H257883-04	Soil	19-Dec-25 11:46	22-Dec-25 12:55
SS05 0.5'	H257883-05	Soil	19-Dec-25 11:48	22-Dec-25 12:55
SS06 0.5'	H257883-06	Soil	19-Dec-25 11:50	22-Dec-25 12:55
SS07 0.5'	H257883-07	Soil	19-Dec-25 11:52	22-Dec-25 12:55
SS08 0.5'	H257883-08	Soil	19-Dec-25 11:54	22-Dec-25 12:55
SS09 0.5'	H257883-09	Soil	19-Dec-25 11:56	22-Dec-25 12:55
SS10 0.5'	H257883-10	Soil	19-Dec-25 11:58	22-Dec-25 12:55
SS11 0.5'	H257883-11	Soil	19-Dec-25 12:00	22-Dec-25 12:55
SS12 0.5'	H257883-12	Soil	19-Dec-25 12:02	22-Dec-25 12:55
SS13 0.5'	H257883-13	Soil	19-Dec-25 12:04	22-Dec-25 12:55

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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS01 0.5'
H257883-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		101 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
DRO >C10-C28*	592	10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	122	10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctane		98.4 %	52.4-130		5122225	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane		111 %	39.9-141		5122225	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	691	10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS02 0.5'
H257883-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
DRO >C10-C28*	99.3		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	20.8		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctane			89.6 %	52.4-130		5122225	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			92.7 %	39.9-141		5122225	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	1170		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS03 0.5'
H257883-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
DRO >C10-C28*	1130		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	276		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctane			101 %	52.4-130		5122225	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			124 %	39.9-141		5122225	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	1100		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS04 0.5'
H257883-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
DRO >C10-C28*	116		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	30.3		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctane			98.0 %	52.4-130		5122225	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			102 %	39.9-141		5122225	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	1020		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS05 0.5'
H257883-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
DRO >C10-C28*	42.7		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			98.2 %	52.4-130		5122225	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			104 %	39.9-141		5122225	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	940		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS06 0.5'
H257883-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122225	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			93.5 %	52.4-130		5122225	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			94.8 %	39.9-141		5122225	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	988		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS07 0.5'
H257883-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			104 %	52.4-130		5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			110 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	480		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS08 0.5'
H257883-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctane			107 %	52.4-130		5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			112 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	1070		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS09 0.5'
H257883-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			<i>99.0 %</i>	<i>70.4-141</i>		<i>5122221</i>	<i>JH</i>	<i>22-Dec-25</i>	<i>8021B</i>	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			<i>107 %</i>	<i>52.4-130</i>		<i>5122226</i>	<i>MS</i>	<i>22-Dec-25</i>	<i>8015B</i>	
<i>Surrogate: 1-Chlorooctadecane</i>			<i>113 %</i>	<i>39.9-141</i>		<i>5122226</i>	<i>MS</i>	<i>22-Dec-25</i>	<i>8015B</i>	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	1090		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS10 0.5'
H257883-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	28.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctane			101 %	52.4-130		5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			106 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	929		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS11 0.5'
H257883-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			102 %	52.4-130		5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			109 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	1040		10.0	mg/kg wet	10	B254139	AWG	29-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS12 0.5'
H257883-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.7 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	12.9		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctane			100 %	52.4-130		5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			108 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	1330		10.0	mg/kg wet	10	B254139	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

SS13 0.5'
H257883-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			100 %	52.4-130		5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			107 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	832		10.0	mg/kg wet	10	B254139	AWG	30-Dec-25	EPA 300.0	
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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: NMGS AU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

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 5122221 - Volatiles**Blank (5122221-BLK1)**

Prepared & Analyzed: 22-Dec-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)	0.0514		mg/kg	0.0500		103	70.4-141			

LCS (5122221-BS1)

Prepared & Analyzed: 22-Dec-25

Benzene	1.84	0.050	mg/kg	2.00		91.8	71-111			
Toluene	1.79	0.050	mg/kg	2.00		89.5	75-116			
Ethylbenzene	1.92	0.050	mg/kg	2.00		96.0	74.2-119			
m,p-Xylene	3.92	0.100	mg/kg	4.00		98.1	72.5-123			
o-Xylene	1.90	0.050	mg/kg	2.00		94.8	70.5-124			
Total Xylenes	5.82	0.150	mg/kg	6.00		97.0	72.2-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.6	70.4-141			

LCS Dup (5122221-BSD1)

Prepared & Analyzed: 22-Dec-25

Benzene	1.73	0.050	mg/kg	2.00		86.3	71-111	6.18	17.6	
Toluene	1.77	0.050	mg/kg	2.00		88.5	75-116	1.13	14.8	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.6	74.2-119	3.69	14.2	
m,p-Xylene	4.02	0.100	mg/kg	4.00		100	72.5-123	2.33	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.7	70.5-124	2.93	13.7	
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	72.2-123	2.53	13.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	70.4-141			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: NMGS AU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGLI
Fax To:

Reported:
30-Dec-25 17:25

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 5122225 - General Prep - Organics**Blank (5122225-BLK1)**

Prepared & Analyzed: 22-Dec-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	49.9		mg/kg	50.0		99.7	52.4-130			
Surrogate: 1-Chlorooctadecane	49.0		mg/kg	50.0		98.1	39.9-141			

LCS (5122225-BS1)

Prepared & Analyzed: 22-Dec-25

GRO C6-C10	211	10.0	mg/kg	200		105	78.7-123			
DRO >C10-C28	206	10.0	mg/kg	200		103	74.8-123			
Total TPH C6-C28	416	10.0	mg/kg	400		104	78.6-121			
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	52.4-130			
Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0		102	39.9-141			

LCS Dup (5122225-BS1)

Prepared & Analyzed: 22-Dec-25

GRO C6-C10	216	10.0	mg/kg	200		108	78.7-123	2.55	11.3	
DRO >C10-C28	211	10.0	mg/kg	200		105	74.8-123	2.45	10.9	
Total TPH C6-C28	427	10.0	mg/kg	400		107	78.6-121	2.50	10.5	
Surrogate: 1-Chlorooctane	52.8		mg/kg	50.0		106	52.4-130			
Surrogate: 1-Chlorooctadecane	52.4		mg/kg	50.0		105	39.9-141			

Batch 5122226 - General Prep - Organics**Blank (5122226-BLK1)**

Prepared & Analyzed: 22-Dec-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	50.4		mg/kg	50.0		101	52.4-130			
Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	39.9-141			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: NMGS AU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

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 5122226 - General Prep - Organics**LCS (5122226-BS1)**

Prepared & Analyzed: 22-Dec-25

GRO C6-C10	200	10.0	mg/kg	200		99.8	78.7-123			
DRO >C10-C28	211	10.0	mg/kg	200		106	74.8-123			
Total TPH C6-C28	411	10.0	mg/kg	400		103	78.6-121			
Surrogate: 1-Chlorooctane	58.9		mg/kg	50.0		118	52.4-130			
Surrogate: 1-Chlorooctadecane	61.6		mg/kg	50.0		123	39.9-141			

LCS Dup (5122226-BS1)

Prepared & Analyzed: 22-Dec-25

GRO C6-C10	201	10.0	mg/kg	200		100	78.7-123	0.429	11.3	
DRO >C10-C28	220	10.0	mg/kg	200		110	74.8-123	3.98	10.9	
Total TPH C6-C28	420	10.0	mg/kg	400		105	78.6-121	2.27	10.5	
Surrogate: 1-Chlorooctane	60.9		mg/kg	50.0		122	52.4-130			
Surrogate: 1-Chlorooctadecane	65.7		mg/kg	50.0		131	39.9-141			

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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: NMGS AU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:25

Soluble (DI Water Extraction) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B254139 - IC- Ion Chromatograph**Blank (B254139-BLK1)**

Prepared & Analyzed: 29-Dec-25

Chloride	ND	10.0	mg/kg wet							
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LCS (B254139-BS1)

Prepared & Analyzed: 29-Dec-25

Chloride	227	10.0	mg/kg wet	250		90.6	85-115			
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LCS Dup (B254139-BSD1)

Prepared & Analyzed: 29-Dec-25

Chloride	233	10.0	mg/kg wet	250		93.1	85-115	2.71	20	
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Matrix Spike (B254139-MS1)

Source: H257883-01

Prepared & Analyzed: 29-Dec-25

Chloride	991	10.0	mg/kg wet	250	691	120	80-120			
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Matrix Spike (B254139-MS2)

Source: H257883-11

Prepared & Analyzed: 29-Dec-25

Chloride	1440	10.0	mg/kg wet	250	1040	157	80-120			M3
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Matrix Spike Dup (B254139-MSD1)

Source: H257883-01

Prepared & Analyzed: 29-Dec-25

Chloride	945	10.0	mg/kg wet	250	691	101	80-120	4.73	20	
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Matrix Spike Dup (B254139-MSD2)

Source: H257883-11

Prepared & Analyzed: 29-Dec-25

Chloride	1420	10.0	mg/kg wet	250	1040	149	80-120	1.45	20	M3
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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC.				BILL TO				ANALYSIS REQUEST							
Project Manager: Kara Naegeil				P.O. #:											
Address: 3122 National Parks Hwy				Company: Hilcorp											
City: Carlsbad				Attn: Billy Ginn											
State: NM Zip: 88220				Address:											
Phone #: 512-709-2473 Fax #:				City:											
Project #: 07A1988349 Project Owner: Hilcorp				State:											
Project Name: NMGS AU 1507				Phone #:											
Project Location: 32.6150093, -103.2844374				Fax #:											
Sampler Name: Alex Ferrell															
FOR LAB USE ONLY															
Lab I.D.		Sample I.D.		Sample Depth		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
										GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		ACID/BASE: ICE / COOL OTHER :		DATE TIME	
HLS 7883		11		0.5'		G 1		X		X		X		12/19/2025 1200	
		12		0.5'		G 1		X		X		X		12/19/2025 1202	
		13		0.5'		G 1		X		X		X		12/19/2025 1204	
AC															

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Relinquished By:				Date: 12-22-25				Received By:			
Relinquished By:				Date: 12-22-25				Received By:			
Delivered By: (Circle One)				Observed Temp. °C 1.8				Sample Condition			
Sampler - UPS - Bus - Other:				Corrected Temp. °C 2.1				Checked By: (Initials)			
FORM-006 R 3.6 02/12/25				Turnaround Time:				Standard			
				Thermometer ID #140				3-DAY			
				Correction Factor +0.3°C				Bacteria (only) Sample Condition			
				Corrected Temp. °C				Observed Temp. °C			

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

All Results are emailed. Please provide Email address:
Knaegel@ensolum.com Aferrell@ensolum.com
KJennings@ensolum.com

REMARKS:

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

December 30, 2025

KARA NAEGELI

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: NMGSAU 1507

Enclosed are the results of analyses for samples received by the laboratory on 12/22/25 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
LS01 0.5'	H257884-01	Soil	19-Dec-25 09:39	22-Dec-25 12:55
LS02 0.5'	H257884-02	Soil	19-Dec-25 11:15	22-Dec-25 12:55
LS03 0.5'	H257884-03	Soil	19-Dec-25 11:17	22-Dec-25 12:55
LS04 0.5'	H257884-04	Soil	19-Dec-25 13:30	22-Dec-25 12:55
LS05 0.5'	H257884-05	Soil	19-Dec-25 09:49	22-Dec-25 12:55
LS06 0.5'	H257884-06	Soil	19-Dec-25 09:51	22-Dec-25 12:55
LS07 0.5'	H257884-07	Soil	19-Dec-25 09:53	22-Dec-25 12:55
LS08 0.5'	H257884-08	Soil	19-Dec-25 09:55	22-Dec-25 12:55
LS09 0.5'	H257884-09	Soil	19-Dec-25 09:57	22-Dec-25 12:55
LS10 0.5'	H257884-10	Soil	19-Dec-25 09:59	22-Dec-25 12:55
LS11 0.5'	H257884-11	Soil	19-Dec-25 10:01	22-Dec-25 12:55
LS12 0.5'	H257884-12	Soil	19-Dec-25 10:03	22-Dec-25 12:55
LS13 0.5'	H257884-13	Soil	19-Dec-25 10:05	22-Dec-25 12:55

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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS01 0.5'
H257884-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050	0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		104 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctane		105 %	52.4-130		5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane		107 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	24.8	10.0	mg/kg wet	10	B254139	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS02 0.5'
H257884-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			99.6 %	52.4-130		5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			99.9 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	343		10.0	mg/kg wet	10	B254139	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS03 0.5'
H257884-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			89.7 %	52.4-130		5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			91.5 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	12.4		10.0	mg/kg wet	10	B254139	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS04 0.5'
H257884-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	22-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	70.4-141		5122221	JH	22-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctane			108 %	52.4-130		5122226	MS	22-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			110 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	175		10.0	mg/kg wet	10	B254139	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS05 0.5'
H257884-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	23-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	70.4-141		5122221	JH	23-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			104 %	52.4-130		5122226	MS	22-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			108 %	39.9-141		5122226	MS	22-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	231		10.0	mg/kg wet	10	B254139	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS06 0.5'
H257884-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	23-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	70.4-141		5122221	JH	23-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			108 %	52.4-130		5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			114 %	39.9-141		5122226	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	<10.0		10.0	mg/kg wet	10	B254139	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS07 0.5'
H257884-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122221	JH	23-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122221	JH	23-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	70.4-141		5122221	JH	23-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			109 %	52.4-130		5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			116 %	39.9-141		5122226	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	<10.0		10.0	mg/kg wet	10	B254139	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS08 0.5'
H257884-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	QM-07
Total Xylenes*	<0.150		0.150	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.8 %	70.4-141		5122223	JH	23-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctane			96.3 %	52.4-130		5122226	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			105 %	39.9-141		5122226	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	<10.0		10.0	mg/kg wet	10	B254140	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS09 0.5'
H257884-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122223	JH	23-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.5 %	70.4-141		5122223	JH	23-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			105 %	52.4-130		5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			110 %	39.9-141		5122226	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	<10.0		10.0	mg/kg wet	10	B254140	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS10 0.5'
H257884-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122223	JH	23-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.4 %	70.4-141		5122223	JH	23-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			98.5 %	52.4-130		5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			104 %	39.9-141		5122226	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	<10.0		10.0	mg/kg wet	10	B254140	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS11 0.5'
H257884-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122223	JH	23-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.2 %	70.4-141		5122223	JH	23-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
DRO >C10-C28*	281		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	199		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			101 %	52.4-130		5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			128 %	39.9-141		5122226	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	<10.0		10.0	mg/kg wet	10	B254140	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS12 0.5'
H257884-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.1 %	70.4-141		5122223	JH	23-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
DRO >C10-C28*	14.2		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctane			100 %	52.4-130		5122226	MS	23-Dec-25	8015B	
Surrogate: 1-Chlorooctadecane			108 %	39.9-141		5122226	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	246		10.0	mg/kg wet	10	B254140	AWG	30-Dec-25	EPA 300.0	
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

LS13 0.5'
H257884-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5122223	JH	23-Dec-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5122223	JH	23-Dec-25	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.3 %	70.4-141		5122223	JH	23-Dec-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctane</i>			100 %	52.4-130		5122226	MS	23-Dec-25	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			105 %	39.9-141		5122226	MS	23-Dec-25	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride*	<10.0		10.0	mg/kg wet	10	B254140	AWG	30-Dec-25	EPA 300.0	
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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: NMGS AU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

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 5122221 - Volatiles**Blank (5122221-BLK1)**

Prepared & Analyzed: 22-Dec-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)	0.0514		mg/kg	0.0500		103	70.4-141			

LCS (5122221-BS1)

Prepared & Analyzed: 22-Dec-25

Benzene	1.84	0.050	mg/kg	2.00		91.8	71-111			
Toluene	1.79	0.050	mg/kg	2.00		89.5	75-116			
Ethylbenzene	1.92	0.050	mg/kg	2.00		96.0	74.2-119			
m,p-Xylene	3.92	0.100	mg/kg	4.00		98.1	72.5-123			
o-Xylene	1.90	0.050	mg/kg	2.00		94.8	70.5-124			
Total Xylenes	5.82	0.150	mg/kg	6.00		97.0	72.2-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0488		mg/kg	0.0500		97.6	70.4-141			

LCS Dup (5122221-BS1)

Prepared & Analyzed: 22-Dec-25

Benzene	1.73	0.050	mg/kg	2.00		86.3	71-111	6.18	17.6	
Toluene	1.77	0.050	mg/kg	2.00		88.5	75-116	1.13	14.8	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.6	74.2-119	3.69	14.2	
m,p-Xylene	4.02	0.100	mg/kg	4.00		100	72.5-123	2.33	13.6	
o-Xylene	1.95	0.050	mg/kg	2.00		97.7	70.5-124	2.93	13.7	
Total Xylenes	5.97	0.150	mg/kg	6.00		99.5	72.2-123	2.53	13.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	70.4-141			

Batch 5122223 - Volatiles**Blank (5122223-BLK1)**

Prepared: 22-Dec-25 Analyzed: 23-Dec-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220

Project: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

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 5122223 - Volatiles**Blank (5122223-BLK1)**

Prepared: 22-Dec-25 Analyzed: 23-Dec-25

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.2	70.4-141			

LCS (5122223-BS1)

Prepared: 22-Dec-25 Analyzed: 23-Dec-25

Benzene	1.87	0.050	mg/kg	2.00		93.5	71-111			
Toluene	1.91	0.050	mg/kg	2.00		95.3	75-116			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	74.2-119			
m,p-Xylene	4.17	0.100	mg/kg	4.00		104	72.5-123			
o-Xylene	2.07	0.050	mg/kg	2.00		103	70.5-124			
Total Xylenes	6.24	0.150	mg/kg	6.00		104	72.2-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.6	70.4-141			

LCS Dup (5122223-BS1)

Prepared: 22-Dec-25 Analyzed: 23-Dec-25

Benzene	1.78	0.050	mg/kg	2.00		89.2	71-111	4.72	17.6	
Toluene	1.86	0.050	mg/kg	2.00		92.8	75-116	2.61	14.8	
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	74.2-119	1.86	14.2	
m,p-Xylene	4.10	0.100	mg/kg	4.00		102	72.5-123	1.83	13.6	
o-Xylene	2.03	0.050	mg/kg	2.00		101	70.5-124	2.10	13.7	
Total Xylenes	6.12	0.150	mg/kg	6.00		102	72.2-123	1.92	13.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.9	70.4-141			

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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: NMGS AU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

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 5122226 - General Prep - Organics**Blank (5122226-BLK1)**

Prepared & Analyzed: 22-Dec-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	50.4		mg/kg	50.0		101	52.4-130			
Surrogate: 1-Chlorooctadecane	53.1		mg/kg	50.0		106	39.9-141			

LCS (5122226-BS1)

Prepared & Analyzed: 22-Dec-25

GRO C6-C10	200	10.0	mg/kg	200		99.8	78.7-123			
DRO >C10-C28	211	10.0	mg/kg	200		106	74.8-123			
Total TPH C6-C28	411	10.0	mg/kg	400		103	78.6-121			
Surrogate: 1-Chlorooctane	58.9		mg/kg	50.0		118	52.4-130			
Surrogate: 1-Chlorooctadecane	61.6		mg/kg	50.0		123	39.9-141			

LCS Dup (5122226-BS1)

Prepared & Analyzed: 22-Dec-25

GRO C6-C10	201	10.0	mg/kg	200		100	78.7-123	0.429	11.3	
DRO >C10-C28	220	10.0	mg/kg	200		110	74.8-123	3.98	10.9	
Total TPH C6-C28	420	10.0	mg/kg	400		105	78.6-121	2.27	10.5	
Surrogate: 1-Chlorooctane	60.9		mg/kg	50.0		122	52.4-130			
Surrogate: 1-Chlorooctadecane	65.7		mg/kg	50.0		131	39.9-141			

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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: NMGS AU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

Soluble (DI Water Extraction) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B254139 - IC- Ion Chromatograph**Blank (B254139-BLK1)**

Prepared & Analyzed: 29-Dec-25

Chloride	ND	10.0	mg/kg wet							
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LCS (B254139-BS1)

Prepared & Analyzed: 29-Dec-25

Chloride	227	10.0	mg/kg wet	250		90.6	85-115			
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LCS Dup (B254139-BSD1)

Prepared & Analyzed: 29-Dec-25

Chloride	233	10.0	mg/kg wet	250		93.1	85-115	2.71	20	
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Matrix Spike (B254139-MS1)

Source: 2512281-01

Prepared & Analyzed: 29-Dec-25

Chloride	991	10.0	mg/kg wet	250	691	120	80-120			
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Matrix Spike (B254139-MS2)

Source: 2512281-11

Prepared & Analyzed: 29-Dec-25

Chloride	1440	10.0	mg/kg wet	250	1040	157	80-120			M3
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Matrix Spike Dup (B254139-MSD1)

Source: 2512281-01

Prepared & Analyzed: 29-Dec-25

Chloride	945	10.0	mg/kg wet	250	691	101	80-120	4.73	20	
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Matrix Spike Dup (B254139-MSD2)

Source: 2512281-11

Prepared & Analyzed: 29-Dec-25

Chloride	1420	10.0	mg/kg wet	250	1040	149	80-120	1.45	20	M3
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Batch B254140 - IC- Ion Chromatograph**Blank (B254140-BLK1)**

Prepared: 29-Dec-25 Analyzed: 30-Dec-25

Chloride	ND	10.0	mg/kg wet							
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LCS (B254140-BS1)

Prepared: 29-Dec-25 Analyzed: 30-Dec-25

Chloride	229	10.0	mg/kg wet	250		91.7	85-115			
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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: NMGSAU 1507
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
30-Dec-25 17:31

Soluble (DI Water Extraction) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B254140 - IC- Ion Chromatograph**LCS Dup (B254140-BSD1)**

Prepared: 29-Dec-25 Analyzed: 30-Dec-25

Chloride	235	10.0	mg/kg wet	250	94.2	85-115	2.69	20
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Matrix Spike (B254140-MS1)

Source: H257884-13

Prepared: 29-Dec-25 Analyzed: 30-Dec-25

Chloride	243	10.0	mg/kg wet	250	9.84	93.3	80-120
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Matrix Spike Dup (B254140-MSD1)

Source: H257884-13

Prepared: 29-Dec-25 Analyzed: 30-Dec-25

Chloride	243	10.0	mg/kg wet	250	9.84	93.4	80-120	0.0658	20
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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC.					
Project Manager: Kara Naegeli					
Address: 3122 National Parks Hwy					
City: Carlsbad State: NM Zip: 88220					
Phone #: 512-709-2473 Fax #:					
Project #: 07A1988349 Project Owner: Hilcorp					
Project Name: NMGSAU 1507					
Project Location: 32.6150093, -103.2844374					
Sampler Name: Alex Ferrell					

										BILL TO		ANALYSIS REQUEST						
										P.O. #:	Company: Hilcorp							
										Attn: Billy Ginn	Address:							
										State:	City:							
										Phone #:	Fax #:							
FOR LAB USE ONLY										BTEX 8021	TPH 8015	Chloride 300						

Lab I.D. Sample Depth Date	Sample L.I.D. Depth DATE	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER : ✓	TIME											
						MATRIX	PRESERV.	SAMPLING								
HSS7884	LS01	G 1	X	X	939	X	X	X								
	LS02	G 1	X	X	1115	X	X	X								
	LS03	G 1	X	X	1117	X	X	X								
	LS04	G 1	X	X	1330	X	X	X								
	LS05	G 1	X	X	949	X	X	X								
	LS06	G 1	X	X	951	X	X	X								
	LS07	G 1	X	X	953	X	X	X								
	LS08	G 1	X	X	955	X	X	X								
	LS09	G 1	X	X	957	X	X	X								
	LS10	G 1	X	X	1219/2025	959	X	X	X							

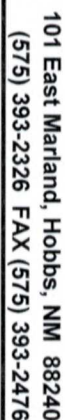
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Relinquished By: _____ Date: 12-22-25 Received By: _____ Verbal Result: Yes No Add'l Phone #: _____
All Results are emailed. Please provide Email address: Knaegel@ensolum.com Aferrel@ensolum.com Kjennings@ensolum.com

Delivered By: (Circle One)

Observed Temp.: 1.8 Corrected Temp.: 2.1 Sample Condition Cool Intact Yes Yes No No CHECKED BY: (Initials) TJS

Turnaround Time: Standard Rush 3-DAY Bacteria (only) Sample Condition Cool Intact Observed Temp.: °C Corrected Temp.: °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Devin Hencmann
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 6/4/2025 2:09:07 PM

JOB DESCRIPTION

E L FEDERAL #005
07A1988214

JOB NUMBER

890-8259-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



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6/4/2025 2:09:07 PM

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

Client: Ensolum
Project/Site: E L FEDERAL #005

Laboratory Job ID: 890-8259-1
SDG: 07A1988214

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	17
QC Sample Results	18
QC Association Summary	22
Lab Chronicle	26
Certification Summary	30
Method Summary	31
Sample Summary	32
Chain of Custody	33
Receipt Checklists	35

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

Definitions/Glossary

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project: E L FEDERAL #005

Job ID: 890-8259-1

Job ID: 890-8259-1

Eurofins Carlsbad

Job Narrative 890-8259-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 6/2/2025 9:09 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS13 (890-8259-1), SS12 (890-8259-2), SS11 (890-8259-3), SS10 (890-8259-4), SS09 (890-8259-5), SS08 (890-8259-6), SS07 (890-8259-7), SS06 (890-8259-8), SS05 (890-8259-9), SS04 (890-8259-10), SS03 (890-8259-11), SS02 (890-8259-12) and SS01 (890-8259-13).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111354 and analytical batch 880-111420 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111364 and analytical batch 880-111367 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS13

Lab Sample ID: 890-8259-1

Date Collected: 05/30/25 12:36

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 13:55	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 13:55	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 13:55	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/03/25 10:03	06/03/25 13:55	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 13:55	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/03/25 10:03	06/03/25 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	06/03/25 10:03	06/03/25 13:55	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/03/25 10:03	06/03/25 13:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/03/25 13:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/03/25 16:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8	mg/Kg		06/03/25 07:52	06/03/25 16:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/03/25 07:52	06/03/25 16:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/03/25 07:52	06/03/25 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/03/25 07:52	06/03/25 16:59	1
o-Terphenyl	85		70 - 130	06/03/25 07:52	06/03/25 16:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		10.1	mg/Kg			06/03/25 11:59	1

Client Sample ID: SS12

Lab Sample ID: 890-8259-2

Date Collected: 05/30/25 12:34

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/03/25 10:03	06/03/25 14:16	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/03/25 10:03	06/03/25 14:16	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/03/25 10:03	06/03/25 14:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/03/25 10:03	06/03/25 14:16	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/03/25 10:03	06/03/25 14:16	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/03/25 10:03	06/03/25 14:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/03/25 10:03	06/03/25 14:16	1

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS12

Lab Sample ID: 890-8259-2

Date Collected: 05/30/25 12:34

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130	06/03/25 10:03	06/03/25 14:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			06/03/25 14:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 17:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/03/25 07:52	06/03/25 17:47	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/03/25 07:52	06/03/25 17:47	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/03/25 07:52	06/03/25 17:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			06/03/25 07:52	06/03/25 17:47	1
o-Terphenyl	84		70 - 130			06/03/25 07:52	06/03/25 17:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	83.5		9.96	mg/Kg			06/03/25 12:21	1

Client Sample ID: SS11

Lab Sample ID: 890-8259-3

Date Collected: 05/30/25 12:28

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 14:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 14:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 14:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/03/25 10:03	06/03/25 14:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 14:36	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/03/25 10:03	06/03/25 14:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/03/25 10:03	06/03/25 14:36	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/03/25 10:03	06/03/25 14:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/03/25 14:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/03/25 18:03	1

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS11

Lab Sample ID: 890-8259-3

Date Collected: 05/30/25 12:28

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/03/25 07:52	06/03/25 18:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/03/25 07:52	06/03/25 18:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/03/25 07:52	06/03/25 18:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			06/03/25 07:52	06/03/25 18:03	1
o-Terphenyl	91		70 - 130			06/03/25 07:52	06/03/25 18:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	332		9.92	mg/Kg			06/03/25 12:29	1

Client Sample ID: SS10

Lab Sample ID: 890-8259-4

Date Collected: 05/30/25 14:18

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 15:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 15:59	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 15:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/03/25 10:03	06/03/25 15:59	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 15:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/03/25 10:03	06/03/25 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			06/03/25 10:03	06/03/25 15:59	1
1,4-Difluorobenzene (Surr)	100		70 - 130			06/03/25 10:03	06/03/25 15:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/03/25 15:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/03/25 18:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/03/25 07:52	06/03/25 18:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/03/25 07:52	06/03/25 18:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/03/25 07:52	06/03/25 18:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			06/03/25 07:52	06/03/25 18:19	1
o-Terphenyl	88		70 - 130			06/03/25 07:52	06/03/25 18:19	1

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS10

Lab Sample ID: 890-8259-4

Date Collected: 05/30/25 14:18

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		10.1	mg/Kg			06/03/25 12:36	1

Client Sample ID: SS09

Lab Sample ID: 890-8259-5

Date Collected: 05/30/25 12:39

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 16:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 16:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 16:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/03/25 10:03	06/03/25 16:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 16:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/03/25 10:03	06/03/25 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			06/03/25 10:03	06/03/25 16:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130			06/03/25 10:03	06/03/25 16:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/03/25 16:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			06/03/25 18:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		06/03/25 07:52	06/03/25 18:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		06/03/25 07:52	06/03/25 18:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/03/25 07:52	06/03/25 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			06/03/25 07:52	06/03/25 18:35	1
o-Terphenyl	85		70 - 130			06/03/25 07:52	06/03/25 18:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.4		9.94	mg/Kg			06/03/25 12:43	1

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS08

Lab Sample ID: 890-8259-6

Date Collected: 05/30/25 12:41

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 16:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 16:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 16:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/03/25 10:03	06/03/25 16:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 16:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/03/25 10:03	06/03/25 16:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/03/25 10:03	06/03/25 16:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/03/25 10:03	06/03/25 16:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/03/25 16:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 18:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/03/25 07:52	06/03/25 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/03/25 07:52	06/03/25 18:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/03/25 07:52	06/03/25 18:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	06/03/25 07:52	06/03/25 18:51	1
o-Terphenyl	82		70 - 130	06/03/25 07:52	06/03/25 18:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		10.0	mg/Kg			06/03/25 12:51	1

Client Sample ID: SS07

Lab Sample ID: 890-8259-7

Date Collected: 05/30/25 12:43

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 17:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 17:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 17:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 17:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 17:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/03/25 10:03	06/03/25 17:00	1

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS07

Lab Sample ID: 890-8259-7

Date Collected: 05/30/25 12:43

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	06/03/25 10:03	06/03/25 17:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/25 17:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 19:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/03/25 07:52	06/03/25 19:07	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/03/25 07:52	06/03/25 19:07	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/03/25 07:52	06/03/25 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130			06/03/25 07:52	06/03/25 19:07	1
o-Terphenyl	83		70 - 130			06/03/25 07:52	06/03/25 19:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.6	F1	10.1	mg/Kg			06/03/25 12:58	1

Client Sample ID: SS06

Lab Sample ID: 890-8259-8

Date Collected: 05/30/25 12:45

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 17:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 17:21	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 17:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 17:21	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 17:21	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/03/25 10:03	06/03/25 17:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130	06/03/25 10:03	06/03/25 17:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/25 17:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			06/03/25 19:23	1

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS06

Lab Sample ID: 890-8259-8

Date Collected: 05/30/25 12:45

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		06/03/25 07:52	06/03/25 19:23	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		06/03/25 07:52	06/03/25 19:23	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		06/03/25 07:52	06/03/25 19:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			06/03/25 07:52	06/03/25 19:23	1
o-Terphenyl	80		70 - 130			06/03/25 07:52	06/03/25 19:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		10.1	mg/Kg			06/03/25 13:20	1

Client Sample ID: SS05

Lab Sample ID: 890-8259-9

Date Collected: 05/30/25 13:35

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 17:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 17:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 17:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		06/03/25 10:03	06/03/25 17:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/03/25 10:03	06/03/25 17:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		06/03/25 10:03	06/03/25 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			06/03/25 10:03	06/03/25 17:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130			06/03/25 10:03	06/03/25 17:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/03/25 17:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 19:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/03/25 07:52	06/03/25 19:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/03/25 07:52	06/03/25 19:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/03/25 07:52	06/03/25 19:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			06/03/25 07:52	06/03/25 19:39	1
o-Terphenyl	88		70 - 130			06/03/25 07:52	06/03/25 19:39	1

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS05

Lab Sample ID: 890-8259-9

Date Collected: 05/30/25 13:35

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8830		101	mg/Kg			06/03/25 13:28	10

Client Sample ID: SS04

Lab Sample ID: 890-8259-10

Date Collected: 05/30/25 13:40

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 18:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 18:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 18:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 18:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 18:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			06/03/25 10:03	06/03/25 18:02	1
1,4-Difluorobenzene (Surr)	96		70 - 130			06/03/25 10:03	06/03/25 18:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/25 18:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			06/03/25 19:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		06/03/25 07:52	06/03/25 19:55	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		06/03/25 07:52	06/03/25 19:55	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/03/25 07:52	06/03/25 19:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			06/03/25 07:52	06/03/25 19:55	1
o-Terphenyl	84		70 - 130			06/03/25 07:52	06/03/25 19:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7070		99.2	mg/Kg			06/03/25 13:50	10

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS03

Lab Sample ID: 890-8259-11

Date Collected: 05/30/25 13:38

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 18:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 18:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 18:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/03/25 10:03	06/03/25 18:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/03/25 10:03	06/03/25 18:22	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/03/25 10:03	06/03/25 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/03/25 10:03	06/03/25 18:22	1
1,4-Difluorobenzene (Surr)	100		70 - 130	06/03/25 10:03	06/03/25 18:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/03/25 18:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 20:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/03/25 07:52	06/03/25 20:27	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/03/25 07:52	06/03/25 20:27	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/03/25 07:52	06/03/25 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	06/03/25 07:52	06/03/25 20:27	1
o-Terphenyl	85		70 - 130	06/03/25 07:52	06/03/25 20:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8450		100	mg/Kg			06/03/25 13:57	10

Client Sample ID: SS02

Lab Sample ID: 890-8259-12

Date Collected: 05/30/25 13:42

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 18:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 18:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 18:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 18:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 18:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	06/03/25 10:03	06/03/25 18:42	1

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS02

Lab Sample ID: 890-8259-12

Date Collected: 05/30/25 13:42

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	06/03/25 10:03	06/03/25 18:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/25 18:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/03/25 20:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/03/25 07:52	06/03/25 20:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/03/25 07:52	06/03/25 20:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/03/25 07:52	06/03/25 20:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			06/03/25 07:52	06/03/25 20:43	1
o-Terphenyl	86		70 - 130			06/03/25 07:52	06/03/25 20:43	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10700		99.4	mg/Kg			06/03/25 14:04	10

Client Sample ID: SS01

Lab Sample ID: 890-8259-13

Date Collected: 05/30/25 14:04

Matrix: Solid

Date Received: 06/02/25 09:09

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 19:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 19:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 19:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 19:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/03/25 10:03	06/03/25 19:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/03/25 10:03	06/03/25 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/03/25 10:03	06/03/25 19:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130	06/03/25 10:03	06/03/25 19:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/25 19:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			06/03/25 20:59	1

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Client Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS01
Date Collected: 05/30/25 14:04
Date Received: 06/02/25 09:09
Sample Depth: 0.5

Lab Sample ID: 890-8259-13
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		06/03/25 07:52	06/03/25 20:59	1	
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		06/03/25 07:52	06/03/25 20:59	1	
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		06/03/25 07:52	06/03/25 20:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	89		70 - 130			06/03/25 07:52	06/03/25 20:59	1	
o-Terphenyl	90		70 - 130			06/03/25 07:52	06/03/25 20:59	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	17000		200	mg/Kg			06/03/25 14:12	20	

Surrogate Summary

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-58802-A-61-B MS	Matrix Spike	93	90
880-58802-A-61-C MSD	Matrix Spike Duplicate	100	96
890-8259-1	SS13	103	97
890-8259-2	SS12	100	101
890-8259-3	SS11	99	99
890-8259-4	SS10	101	100
890-8259-5	SS09	97	99
890-8259-6	SS08	99	100
890-8259-7	SS07	100	100
890-8259-8	SS06	99	101
890-8259-9	SS05	102	101
890-8259-10	SS04	102	96
890-8259-11	SS03	100	100
890-8259-12	SS02	102	100
890-8259-13	SS01	104	102
LCS 880-111298/1-A	Lab Control Sample	95	90
LCSD 880-111298/2-A	Lab Control Sample Dup	96	85
MB 880-111298/5-A	Method Blank	94	99
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8259-1	SS13	87	85
890-8259-1 MS	SS13	80	84
890-8259-1 MSD	SS13	81	85
890-8259-2	SS12	86	84
890-8259-3	SS11	90	91
890-8259-4	SS10	89	88
890-8259-5	SS09	87	85
890-8259-6	SS08	85	82
890-8259-7	SS07	85	83
890-8259-8	SS06	83	80
890-8259-9	SS05	88	88
890-8259-10	SS04	86	84
890-8259-11	SS03	86	85
890-8259-12	SS02	87	86
890-8259-13	SS01	89	90
LCS 880-111354/2-A	Lab Control Sample	84	90
LCSD 880-111354/3-A	Lab Control Sample Dup	87	92
MB 880-111354/1-A	Method Blank	73	75
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111298/5-A

Matrix: Solid

Analysis Batch: 111355

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111298

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/02/25 10:03	06/03/25 11:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/02/25 10:03	06/03/25 11:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/02/25 10:03	06/03/25 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/02/25 10:03	06/03/25 11:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/02/25 10:03	06/03/25 11:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/02/25 10:03	06/03/25 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	06/02/25 10:03	06/03/25 11:11	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/02/25 10:03	06/03/25 11:11	1

Lab Sample ID: LCS 880-111298/1-A

Matrix: Solid

Analysis Batch: 111355

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1098		mg/Kg		110	70 - 130
Toluene	0.100	0.1007		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.1074		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2155		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1068		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: LCSD 880-111298/2-A

Matrix: Solid

Analysis Batch: 111355

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111298

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1118		mg/Kg		112	70 - 130	2	35
Toluene	0.100	0.1047		mg/Kg		105	70 - 130	4	35
Ethylbenzene	0.100	0.1098		mg/Kg		110	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2196		mg/Kg		110	70 - 130	2	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 880-58802-A-61-B MS

Matrix: Solid

Analysis Batch: 111355

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 111298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08600		mg/Kg		86	70 - 130
Toluene	<0.00200	U	0.100	0.07440		mg/Kg		74	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

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

Lab Sample ID: 880-58802-A-61-B MS

Matrix: Solid

Analysis Batch: 111355

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 111298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07625		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1484		mg/Kg		74	70 - 130
o-Xylene	<0.00200	U	0.100	0.07554		mg/Kg		76	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-58802-A-61-C MSD

Matrix: Solid

Analysis Batch: 111355

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 111298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08584		mg/Kg		86	70 - 130	0	35
Toluene	<0.00200	U	0.100	0.07345		mg/Kg		73	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.07497		mg/Kg		75	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1478		mg/Kg		74	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.07578		mg/Kg		76	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-111354/1-A

Matrix: Solid

Analysis Batch: 111420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 111354

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/03/25 07:52	06/03/25 06:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/03/25 07:52	06/03/25 06:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/03/25 07:52	06/03/25 06:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	06/03/25 07:52	06/03/25 06:20	1
o-Terphenyl	75		70 - 130	06/03/25 07:52	06/03/25 06:20	1

Lab Sample ID: LCS 880-111354/2-A

Matrix: Solid

Analysis Batch: 111420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111354

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	776.3		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	1000	866.8		mg/Kg		87	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

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

Lab Sample ID: LCS 880-111354/2-A

Matrix: Solid

Analysis Batch: 111420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 111354

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-111354/3-A

Matrix: Solid

Analysis Batch: 111420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 111354

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	810.6		mg/Kg		81	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	882.4		mg/Kg		88	70 - 130	2	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-8259-1 MS

Matrix: Solid

Analysis Batch: 111420

Client Sample ID: SS13

Prep Type: Total/NA

Prep Batch: 111354

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	725.8		mg/Kg		73	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	999	853.1		mg/Kg		85	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: 890-8259-1 MSD

Matrix: Solid

Analysis Batch: 111420

Client Sample ID: SS13

Prep Type: Total/NA

Prep Batch: 111354

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	999	693.8	F1	mg/Kg		69	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	825.7		mg/Kg		83	70 - 130	3	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	85		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111364/1-A
Matrix: Solid
Analysis Batch: 111367

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			06/03/25 10:54	1

Lab Sample ID: LCS 880-111364/2-A
Matrix: Solid
Analysis Batch: 111367

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	261.0		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-111364/3-A
Matrix: Solid
Analysis Batch: 111367

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	261.3		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-8259-7 MS
Matrix: Solid
Analysis Batch: 111367

Client Sample ID: SS07
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	86.6	F1	252	374.2	F1	mg/Kg		114	90 - 110

Lab Sample ID: 890-8259-7 MSD
Matrix: Solid
Analysis Batch: 111367

Client Sample ID: SS07
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	86.6	F1	252	376.4	F1	mg/Kg		115	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

GC VOA

Prep Batch: 111298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-1	SS13	Total/NA	Solid	5035	
890-8259-2	SS12	Total/NA	Solid	5035	
890-8259-3	SS11	Total/NA	Solid	5035	
890-8259-4	SS10	Total/NA	Solid	5035	
890-8259-5	SS09	Total/NA	Solid	5035	
890-8259-6	SS08	Total/NA	Solid	5035	
890-8259-7	SS07	Total/NA	Solid	5035	
890-8259-8	SS06	Total/NA	Solid	5035	
890-8259-9	SS05	Total/NA	Solid	5035	
890-8259-10	SS04	Total/NA	Solid	5035	
890-8259-11	SS03	Total/NA	Solid	5035	
890-8259-12	SS02	Total/NA	Solid	5035	
890-8259-13	SS01	Total/NA	Solid	5035	
MB 880-111298/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111298/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111298/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58802-A-61-B MS	Matrix Spike	Total/NA	Solid	5035	
880-58802-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 111355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-1	SS13	Total/NA	Solid	8021B	111298
890-8259-2	SS12	Total/NA	Solid	8021B	111298
890-8259-3	SS11	Total/NA	Solid	8021B	111298
890-8259-4	SS10	Total/NA	Solid	8021B	111298
890-8259-5	SS09	Total/NA	Solid	8021B	111298
890-8259-6	SS08	Total/NA	Solid	8021B	111298
890-8259-7	SS07	Total/NA	Solid	8021B	111298
890-8259-8	SS06	Total/NA	Solid	8021B	111298
890-8259-9	SS05	Total/NA	Solid	8021B	111298
890-8259-10	SS04	Total/NA	Solid	8021B	111298
890-8259-11	SS03	Total/NA	Solid	8021B	111298
890-8259-12	SS02	Total/NA	Solid	8021B	111298
890-8259-13	SS01	Total/NA	Solid	8021B	111298
MB 880-111298/5-A	Method Blank	Total/NA	Solid	8021B	111298
LCS 880-111298/1-A	Lab Control Sample	Total/NA	Solid	8021B	111298
LCSD 880-111298/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111298
880-58802-A-61-B MS	Matrix Spike	Total/NA	Solid	8021B	111298
880-58802-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	111298

Analysis Batch: 111475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-1	SS13	Total/NA	Solid	Total BTEX	
890-8259-2	SS12	Total/NA	Solid	Total BTEX	
890-8259-3	SS11	Total/NA	Solid	Total BTEX	
890-8259-4	SS10	Total/NA	Solid	Total BTEX	
890-8259-5	SS09	Total/NA	Solid	Total BTEX	
890-8259-6	SS08	Total/NA	Solid	Total BTEX	
890-8259-7	SS07	Total/NA	Solid	Total BTEX	
890-8259-8	SS06	Total/NA	Solid	Total BTEX	
890-8259-9	SS05	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

GC VOA (Continued)

Analysis Batch: 111475 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-10	SS04	Total/NA	Solid	Total BTEX	
890-8259-11	SS03	Total/NA	Solid	Total BTEX	
890-8259-12	SS02	Total/NA	Solid	Total BTEX	
890-8259-13	SS01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 111354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-1	SS13	Total/NA	Solid	8015NM Prep	
890-8259-2	SS12	Total/NA	Solid	8015NM Prep	
890-8259-3	SS11	Total/NA	Solid	8015NM Prep	
890-8259-4	SS10	Total/NA	Solid	8015NM Prep	
890-8259-5	SS09	Total/NA	Solid	8015NM Prep	
890-8259-6	SS08	Total/NA	Solid	8015NM Prep	
890-8259-7	SS07	Total/NA	Solid	8015NM Prep	
890-8259-8	SS06	Total/NA	Solid	8015NM Prep	
890-8259-9	SS05	Total/NA	Solid	8015NM Prep	
890-8259-10	SS04	Total/NA	Solid	8015NM Prep	
890-8259-11	SS03	Total/NA	Solid	8015NM Prep	
890-8259-12	SS02	Total/NA	Solid	8015NM Prep	
890-8259-13	SS01	Total/NA	Solid	8015NM Prep	
MB 880-111354/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111354/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8259-1 MS	SS13	Total/NA	Solid	8015NM Prep	
890-8259-1 MSD	SS13	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-1	SS13	Total/NA	Solid	8015B NM	111354
890-8259-2	SS12	Total/NA	Solid	8015B NM	111354
890-8259-3	SS11	Total/NA	Solid	8015B NM	111354
890-8259-4	SS10	Total/NA	Solid	8015B NM	111354
890-8259-5	SS09	Total/NA	Solid	8015B NM	111354
890-8259-6	SS08	Total/NA	Solid	8015B NM	111354
890-8259-7	SS07	Total/NA	Solid	8015B NM	111354
890-8259-8	SS06	Total/NA	Solid	8015B NM	111354
890-8259-9	SS05	Total/NA	Solid	8015B NM	111354
890-8259-10	SS04	Total/NA	Solid	8015B NM	111354
890-8259-11	SS03	Total/NA	Solid	8015B NM	111354
890-8259-12	SS02	Total/NA	Solid	8015B NM	111354
890-8259-13	SS01	Total/NA	Solid	8015B NM	111354
MB 880-111354/1-A	Method Blank	Total/NA	Solid	8015B NM	111354
LCS 880-111354/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111354
LCSD 880-111354/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111354
890-8259-1 MS	SS13	Total/NA	Solid	8015B NM	111354
890-8259-1 MSD	SS13	Total/NA	Solid	8015B NM	111354

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QC Association Summary

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

GC Semi VOA

Analysis Batch: 111532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-1	SS13	Total/NA	Solid	8015 NM	
890-8259-2	SS12	Total/NA	Solid	8015 NM	
890-8259-3	SS11	Total/NA	Solid	8015 NM	
890-8259-4	SS10	Total/NA	Solid	8015 NM	
890-8259-5	SS09	Total/NA	Solid	8015 NM	
890-8259-6	SS08	Total/NA	Solid	8015 NM	
890-8259-7	SS07	Total/NA	Solid	8015 NM	
890-8259-8	SS06	Total/NA	Solid	8015 NM	
890-8259-9	SS05	Total/NA	Solid	8015 NM	
890-8259-10	SS04	Total/NA	Solid	8015 NM	
890-8259-11	SS03	Total/NA	Solid	8015 NM	
890-8259-12	SS02	Total/NA	Solid	8015 NM	
890-8259-13	SS01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 111364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-1	SS13	Soluble	Solid	DI Leach	
890-8259-2	SS12	Soluble	Solid	DI Leach	
890-8259-3	SS11	Soluble	Solid	DI Leach	
890-8259-4	SS10	Soluble	Solid	DI Leach	
890-8259-5	SS09	Soluble	Solid	DI Leach	
890-8259-6	SS08	Soluble	Solid	DI Leach	
890-8259-7	SS07	Soluble	Solid	DI Leach	
890-8259-8	SS06	Soluble	Solid	DI Leach	
890-8259-9	SS05	Soluble	Solid	DI Leach	
890-8259-10	SS04	Soluble	Solid	DI Leach	
890-8259-11	SS03	Soluble	Solid	DI Leach	
890-8259-12	SS02	Soluble	Solid	DI Leach	
890-8259-13	SS01	Soluble	Solid	DI Leach	
MB 880-111364/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111364/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111364/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8259-7 MS	SS07	Soluble	Solid	DI Leach	
890-8259-7 MSD	SS07	Soluble	Solid	DI Leach	

Analysis Batch: 111367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-1	SS13	Soluble	Solid	300.0	111364
890-8259-2	SS12	Soluble	Solid	300.0	111364
890-8259-3	SS11	Soluble	Solid	300.0	111364
890-8259-4	SS10	Soluble	Solid	300.0	111364
890-8259-5	SS09	Soluble	Solid	300.0	111364
890-8259-6	SS08	Soluble	Solid	300.0	111364
890-8259-7	SS07	Soluble	Solid	300.0	111364
890-8259-8	SS06	Soluble	Solid	300.0	111364
890-8259-9	SS05	Soluble	Solid	300.0	111364
890-8259-10	SS04	Soluble	Solid	300.0	111364
890-8259-11	SS03	Soluble	Solid	300.0	111364
890-8259-12	SS02	Soluble	Solid	300.0	111364

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QC Association Summary

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

HPLC/IC (Continued)

Analysis Batch: 111367 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8259-13	SS01	Soluble	Solid	300.0	111364
MB 880-111364/1-A	Method Blank	Soluble	Solid	300.0	111364
LCS 880-111364/2-A	Lab Control Sample	Soluble	Solid	300.0	111364
LCSD 880-111364/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111364
890-8259-7 MS	SS07	Soluble	Solid	300.0	111364
890-8259-7 MSD	SS07	Soluble	Solid	300.0	111364

Lab Chronicle

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS13
Date Collected: 05/30/25 12:36
Date Received: 06/02/25 09:09

Lab Sample ID: 890-8259-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 13:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 13:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 16:59	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		1			111367	06/03/25 11:59	CH	EET MID

Client Sample ID: SS12
Date Collected: 05/30/25 12:34
Date Received: 06/02/25 09:09

Lab Sample ID: 890-8259-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 14:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 17:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 17:47	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		1			111367	06/03/25 12:21	CH	EET MID

Client Sample ID: SS11
Date Collected: 05/30/25 12:28
Date Received: 06/02/25 09:09

Lab Sample ID: 890-8259-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 14:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 14:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 18:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 18:03	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		1			111367	06/03/25 12:29	CH	EET MID

Client Sample ID: SS10
Date Collected: 05/30/25 14:18
Date Received: 06/02/25 09:09

Lab Sample ID: 890-8259-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 15:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 15:59	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS10

Lab Sample ID: 890-8259-4

Date Collected: 05/30/25 14:18

Matrix: Solid

Date Received: 06/02/25 09:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			111532	06/03/25 18:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 18:19	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		1			111367	06/03/25 12:36	CH	EET MID

Client Sample ID: SS09

Lab Sample ID: 890-8259-5

Date Collected: 05/30/25 12:39

Matrix: Solid

Date Received: 06/02/25 09:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 16:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 16:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 18:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 18:35	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		1			111367	06/03/25 12:43	CH	EET MID

Client Sample ID: SS08

Lab Sample ID: 890-8259-6

Date Collected: 05/30/25 12:41

Matrix: Solid

Date Received: 06/02/25 09:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 16:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 16:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 18:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 18:51	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		1			111367	06/03/25 12:51	CH	EET MID

Client Sample ID: SS07

Lab Sample ID: 890-8259-7

Date Collected: 05/30/25 12:43

Matrix: Solid

Date Received: 06/02/25 09:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 17:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 17:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 19:07	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 19:07	TKC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS07**Lab Sample ID: 890-8259-7****Date Collected: 05/30/25 12:43****Matrix: Solid****Date Received: 06/02/25 09:09**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		1			111367	06/03/25 12:58	CH	EET MID

Client Sample ID: SS06**Lab Sample ID: 890-8259-8****Date Collected: 05/30/25 12:45****Matrix: Solid****Date Received: 06/02/25 09:09**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 17:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 17:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 19:23	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 19:23	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		1			111367	06/03/25 13:20	CH	EET MID

Client Sample ID: SS05**Lab Sample ID: 890-8259-9****Date Collected: 05/30/25 13:35****Matrix: Solid****Date Received: 06/02/25 09:09**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 17:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 17:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 19:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 19:39	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		10			111367	06/03/25 13:28	CH	EET MID

Client Sample ID: SS04**Lab Sample ID: 890-8259-10****Date Collected: 05/30/25 13:40****Matrix: Solid****Date Received: 06/02/25 09:09**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 18:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 18:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 19:55	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 19:55	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		10			111367	06/03/25 13:50	CH	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Client Sample ID: SS03
Date Collected: 05/30/25 13:38
Date Received: 06/02/25 09:09

Lab Sample ID: 890-8259-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 18:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 18:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 20:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 20:27	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		10			111367	06/03/25 13:57	CH	EET MID

Client Sample ID: SS02
Date Collected: 05/30/25 13:42
Date Received: 06/02/25 09:09

Lab Sample ID: 890-8259-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 20:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 20:43	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		10			111367	06/03/25 14:04	CH	EET MID

Client Sample ID: SS01
Date Collected: 05/30/25 14:04
Date Received: 06/02/25 09:09

Lab Sample ID: 890-8259-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	111298	06/03/25 10:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111355	06/03/25 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111475	06/03/25 19:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			111532	06/03/25 20:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	111354	06/03/25 07:52	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111420	06/03/25 20:59	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	111364	06/03/25 08:51	SA	EET MID
Soluble	Analysis	300.0		20			111367	06/03/25 14:12	CH	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: E L FEDERAL #005

Job ID: 890-8259-1
SDG: 07A1988214

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8259-1	SS13	Solid	05/30/25 12:36	06/02/25 09:09	0.5
890-8259-2	SS12	Solid	05/30/25 12:34	06/02/25 09:09	0.5
890-8259-3	SS11	Solid	05/30/25 12:28	06/02/25 09:09	0.5
890-8259-4	SS10	Solid	05/30/25 14:18	06/02/25 09:09	0.5
890-8259-5	SS09	Solid	05/30/25 12:39	06/02/25 09:09	0.5
890-8259-6	SS08	Solid	05/30/25 12:41	06/02/25 09:09	0.5
890-8259-7	SS07	Solid	05/30/25 12:43	06/02/25 09:09	0.5
890-8259-8	SS06	Solid	05/30/25 12:45	06/02/25 09:09	0.5
890-8259-9	SS05	Solid	05/30/25 13:35	06/02/25 09:09	0.5
890-8259-10	SS04	Solid	05/30/25 13:40	06/02/25 09:09	0.5
890-8259-11	SS03	Solid	05/30/25 13:38	06/02/25 09:09	0.5
890-8259-12	SS02	Solid	05/30/25 13:42	06/02/25 09:09	0.5
890-8259-13	SS01	Solid	05/30/25 14:04	06/02/25 09:09	0.5



Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1295
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody



890-8259 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Devin Hemmann	Bill to: (if different)	Billy Ginn
Company Name:	Ensolum, LLC	Company Name:	Hilcorp
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	805-798-2608	Email:	dhenmann@ensolum.com, kjennings@ensolum.com

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	E L Federal #005	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number:	07A1988214	☐ Routine ☒ Rush			None: NO DI Water: H ₂ O
Project Location:	32.8192032, -103.9698116	Due Date:	4-Day		Cool: Cool MeOH: Me
Sampler's Name:	Alex Ferrell	TAT starts the day received by the lab, if received by 4:30pm			HCL: HCl HNO ₃ : HN
PO #:		Well Ice:	☒ No		H ₂ SO ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT	Temp Blank: ☒ No	Thermometer ID:			H ₃ PO ₄ : HP
Samples Received Intact:	☒ Yes ☒ No	Correction Factor:			NaHSO ₄ : NABIS
Cooler Custody Seals:	☒ Yes ☒ No	Temperature Reading:	5.6		Na ₂ S ₂ O ₃ : NaSO ₃
Sample Custody Seals:	☒ Yes ☒ No	Corrected Temperature:	5.4		Zn Acetate+NaOH: Zn
Total Containers:					NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Chloride 300	TPH 8015	BTEX 8021	Sample Comments
SS13	Soil	5/30/2025	1236	0.5'	Grab	1	X	X	X	
SS12	Soil	5/30/2025	1234	0.5'	Grab	1	X	X	X	
SS11	Soil	5/30/2025	1228	0.5'	Grab	1	X	X	X	
SS10	Soil	5/30/2025	1418	0.5'	Grab	1	X	X	X	
SS09	Soil	5/30/2025	1239	0.5'	Grab	1	X	X	X	
SS08	Soil	5/30/2025	1241	0.5'	Grab	1	X	X	X	
SS07	Soil	5/30/2025	1243	0.5'	Grab	1	X	X	X	
SS06	Soil	5/30/2025	1245	0.5'	Grab	1	X	X	X	
SS05	Soil	5/30/2025	1335	0.5'	Grab	1	X	X	X	
SS04	Soil	5/30/2025	1340	0.5'	Grab	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	2 <i>[Signature]</i>	9:09 6/2	3	4	2
5			6		

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8259-1

SDG Number: 07A1988214

Login Number: 8259

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8259-1

SDG Number: 07A1988214

Login Number: 8259

List Number: 2

Creator: Laing, Edmundo

List Source: Eurofins Midland

List Creation: 06/03/25 08:01 AM

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



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

January 29, 2026

KARA NAEGELI

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NMGSAU 1509

Enclosed are the results of analyses for samples received by the laboratory on 01/23/26 12:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
KARA NAEGELI
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/23/2026
Reported: 01/29/2026
Project Name: NMGSAU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 03 1' (H260471-01)

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	01/26/2026	ND	2.11	105	2.00	2.02	
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17	
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270	
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823	
Total BTX	<0.300	0.300	01/26/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.9 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/26/2026	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 106 % 52.4-130

Surrogate: 1-Chlorooctadecane 108 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
KARA NAEGELI
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/23/2026
Reported: 01/29/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 03 3.5' (H260471-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2026	ND	2.11	105	2.00	2.02	
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17	
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270	
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823	
Total BTX	<0.300	0.300	01/26/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/26/2026	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 100 % 52.4-130

Surrogate: 1-Chlorooctadecane 104 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KARA NAEGELI
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/23/2026
 Reported: 01/29/2026
 Project Name: NMGS AU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 04 2' (H260471-03)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2026	ND	2.11	105	2.00	2.02		
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270		
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823		
Total BTX	<0.300	0.300	01/26/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.8 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	01/26/2026	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 104 % 52.4-130

Surrogate: 1-Chlorooctadecane 111 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
KARA NAEGELI
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/23/2026
Reported: 01/29/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 04 3' (H260471-04)

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	01/26/2026	ND	2.11	105	2.00	2.02		
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270		
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823		
Total BTEx	<0.300	0.300	01/26/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	01/26/2026	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 110 % 52.4-130

Surrogate: 1-Chlorooctadecane 114 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
KARA NAEGELI
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/23/2026
Reported: 01/29/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 05 1' (H260471-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2026	ND	2.11	105	2.00	2.02	
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17	
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270	
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823	
Total BTX	<0.300	0.300	01/26/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	01/26/2026	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 96.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 99.1 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
KARA NAEGELI
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/23/2026
Reported: 01/29/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 05 3' (H260471-06)

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	01/26/2026	ND	2.11	105	2.00	2.02		
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270		
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823		
Total BTEx	<0.300	0.300	01/26/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	01/26/2026	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 98.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 101 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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A handwritten signature in 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

101



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

January 29, 2026

KALEI JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NMGSAU 1509

Enclosed are the results of analyses for samples received by the laboratory on 01/23/26 12:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KALEI JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/23/2026
 Reported: 01/29/2026
 Project Name: NMGSAU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 06 2' (H260472-01)

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	01/26/2026	ND	2.11	105	2.00	2.02	
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17	
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270	
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823	
Total BTX	<0.300	0.300	01/26/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	01/26/2026	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 97.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 99.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/23/2026
Reported: 01/29/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 06 3' (H260472-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2026	ND	2.11	105	2.00	2.02		
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270		
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823		
Total BTX	<0.300	0.300	01/26/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	01/26/2026	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 99.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 103 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name Ensolum Project Manager Kara Naegeli Address: 601 N. Marland St STE 400 City: Midland St TX Zip: 79701 Phone #: 512-709-2473 Fax #: Project #: 07A1988349 Project Owner: OXY Hilcorp Project Name: NMGS AU 15019 Project Location: Lea County, NM Sampler Name: Nicolas Christakos				BILL TO P.O. #: Company Hilcorp Energy Attn: Billy Ginn Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST									
FOR LAB USE ONLY				MATRIX				PRESERV				SAMPLING					
Lab I.D. Hobbs 2		Sample I.D. BH06 BH06		Sample Depth 1' 3'		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL : OTHER :		DATE 06/22/26 06/22/26 06/22/26		TIME 1431 1442 1442		TPH 8015 BTEX 8015 Chloride 4500 Hold		IC NFE 06/24/26		IC NFE 06/24/26	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																	
Relinquished By: <i>Melvin Christakos</i> Date: 06-23-26 Time: 1055 Received By: <i>Enr</i>				Relinquished By: <i>Enr</i> Date: 06-23-26 Time: 1055 Received By: <i>Enr</i>				REMARKS: Turnaround Time: Standard ☒ Rush ☐ Thermometer ID #140 Correction Factor +0.3°C +0.1°C Bacteria (only) Sample Condition Cool Intact ☐ Yes ☐ No ☐ Corrected Temp. °C									
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25				Observed Temp. °C 3.9 Corrected Temp. °C 4.0				CHECKED BY: <i>AP</i> Sample Condition Cool Intact ☐ Yes ☐ No ☐ Corrected Temp. °C									

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



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

January 29, 2026

KARA NAEGELI

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NMGSAU 1509

Enclosed are the results of analyses for samples received by the laboratory on 01/23/26 12:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KARA NAEGELI
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/23/2026
 Reported: 01/29/2026
 Project Name: NMGS AU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 02 1' (H260473-01)

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	01/26/2026	ND	2.11	105	2.00	2.02	
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17	
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270	
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823	
Total BTX	<0.300	0.300	01/26/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	01/26/2026	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 104 % 52.4-130

Surrogate: 1-Chlorooctadecane 107 % 39.9-141

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KARA NAEGELI
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/23/2026
 Reported: 01/29/2026
 Project Name: NMGS AU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 02 4' (H260473-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/26/2026	ND	2.11	105	2.00	2.02		
Toluene*	<0.050	0.050	01/26/2026	ND	2.21	110	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/26/2026	ND	2.23	111	2.00	0.00270		
Total Xylenes*	<0.150	0.150	01/26/2026	ND	6.59	110	6.00	0.0823		
Total BTX	<0.300	0.300	01/26/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.9 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	01/26/2026	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 105 % 52.4-130

Surrogate: 1-Chlorooctadecane 108 % 39.9-141

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name Ensolum				BILL TO				ANALYSIS REQUEST					
Project Manage Kara Naegeli				P.O. #:									
Address: 601 N. Marientfeld St STE 400				Company Hilcorp Energy									
City: Midland				Attn: Billy Ginn									
Phone #: 512-709-2473				Address:									
Fax #: 512-709-2473				City:									
Project #: 07A1088349				State:									
Project Owner: exx Hilcorp				Zip:									
Project Name: NMGS AU 15079				Phone #:									
Project Location: Lea County, NM				Fax #:									
Sampler Name: Nicolas Christakos													
FOR LAB USE ONLY													
Lab I.D. H2103340	Sample I.D. BH02	Sample Depth 2'	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH 8015	BTEX 8015	Chloride 4500	Hold
					GROUNDWATER			01/22/26	1045				
					WASTEWATER			01/23/26	1059				
					SOIL								
					OIL								
					SLUDGE								
					OTHER :								
					ACID/BASE:								
					ICE / COOL								
					OTHER :								

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Relinquished By: <i>Nicolas Christakos</i>	Date: <i>01/23-26</i>	Received By: <i>Sam</i>	Time: <i>1045</i>
Relinquished By: <i>Sam</i>	Date: <i>01/23/26</i>	Received By: <i>Sam</i>	Time: <i>1045</i>

Delivered By: (Circle One) *Sam*

Observed Temp. °C *3.9*

Corrected Temp. °C *4.0*

Sample Condition

Sample Intact ☒ Yes ☐ No

Cool Intact ☒ Yes ☐ No

Checked By: *AS*

Turnaround Time: *Standard*

Thermometer ID #140

Correction Factor *46.5°C + 0.1*

Bacteria (only) Sample Condition

Cool Intact ☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

REMARKS:

Verbal Result: ☐ Yes ☒ No

Add'l Phone #:

All Results are emailed. Please provide Email address: *knageli@ensolum.com*

Nichristakos@ensolum.com

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



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

January 29, 2026

KARA NAEGELI

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NMGSAU 1509

Enclosed are the results of analyses for samples received by the laboratory on 01/23/26 12:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KARA NAEGELI
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/23/2026
 Reported: 01/29/2026
 Project Name: NMGSAU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 01 1' (H260474-01)

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	01/27/2026	ND	2.11	105	2.00	2.02	
Toluene*	<0.050	0.050	01/27/2026	ND	2.21	110	2.00	1.17	
Ethylbenzene*	<0.050	0.050	01/27/2026	ND	2.23	111	2.00	0.00270	
Total Xylenes*	<0.150	0.150	01/27/2026	ND	6.59	110	6.00	0.0823	
Total BTX	<0.300	0.300	01/27/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	01/26/2026	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 107 % 52.4-130

Surrogate: 1-Chlorooctadecane 110 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
KARA NAEGELI
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/23/2026
Reported: 01/29/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/22/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 01 4' (H260474-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/27/2026	ND	2.11	105	2.00	2.02		
Toluene*	<0.050	0.050	01/27/2026	ND	2.21	110	2.00	1.17		
Ethylbenzene*	<0.050	0.050	01/27/2026	ND	2.23	111	2.00	0.00270		
Total Xylenes*	<0.150	0.150	01/27/2026	ND	6.59	110	6.00	0.0823		
Total BTX	<0.300	0.300	01/27/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/26/2026	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2026	ND	184	92.2	200	2.40	
DRO >C10-C28*	<10.0	10.0	01/24/2026	ND	194	97.1	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/24/2026	ND					

Surrogate: 1-Chlorooctane 86.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.6 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

February 03, 2026

KALEI JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NMGSAU 1509

Enclosed are the results of analyses for samples received by the laboratory on 01/28/26 13:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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
 KALEI JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 01/28/2026
 Reported: 02/03/2026
 Project Name: NMGSAU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 01/23/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 07 1' (H260502-01)

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	01/28/2026	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/28/2026	ND	2.04	102	2.00	3.07	
Ethylbenzene*	<0.050	0.050	01/28/2026	ND	2.10	105	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/28/2026	ND	6.31	105	6.00	4.59	
Total BTX	<0.300	0.300	01/28/2026	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	01/29/2026	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2026	ND	208	104	200	2.43	
DRO >C10-C28*	<10.0	10.0	01/29/2026	ND	211	105	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	01/29/2026	ND					

Surrogate: 1-Chlorooctane 98.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 101 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/28/2026
Reported: 02/03/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/23/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 07 3' (H260502-02)

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	01/28/2026	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/28/2026	ND	2.04	102	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2026	ND	2.10	105	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/28/2026	ND	6.31	105	6.00	4.59		
Total BTEx	<0.300	0.300	01/28/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	01/29/2026	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2026	ND	208	104	200	2.43	
DRO >C10-C28*	<10.0	10.0	01/29/2026	ND	211	105	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	01/29/2026	ND					

Surrogate: 1-Chlorooctane 104 % 52.4-130

Surrogate: 1-Chlorooctadecane 108 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/28/2026
Reported: 02/03/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/23/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 08 3' (H260502-03)

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	01/28/2026	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/28/2026	ND	2.04	102	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2026	ND	2.10	105	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/28/2026	ND	6.31	105	6.00	4.59		
Total BTEx	<0.300	0.300	01/28/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	01/29/2026	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2026	ND	208	104	200	2.43	
DRO >C10-C28*	<10.0	10.0	01/29/2026	ND	211	105	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	01/29/2026	ND					

Surrogate: 1-Chlorooctane 105 % 52.4-130

Surrogate: 1-Chlorooctadecane 109 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/28/2026
Reported: 02/03/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/23/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 08 5' (H260502-04)

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	01/28/2026	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/28/2026	ND	2.04	102	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2026	ND	2.10	105	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/28/2026	ND	6.31	105	6.00	4.59		
Total BTEx	<0.300	0.300	01/28/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	01/29/2026	ND	480	120	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2026	ND	208	104	200	2.43	
DRO >C10-C28*	<10.0	10.0	01/29/2026	ND	211	105	200	2.91	
EXT DRO >C28-C36	<10.0	10.0	01/29/2026	ND					

Surrogate: 1-Chlorooctane 113 % 52.4-130

Surrogate: 1-Chlorooctadecane 117 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 01/28/2026
Reported: 02/03/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 01/23/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 09 3' (H260502-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/28/2026	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/28/2026	ND	2.04	102	2.00	3.07		
Ethylbenzene*	<0.050	0.050	01/28/2026	ND	2.10	105	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/28/2026	ND	6.31	105	6.00	4.59		
Total BTX	<0.300	0.300	01/28/2026	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	01/29/2026	ND	480	120	400	3.39		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2026	ND	208	104	200	2.43	
DRO >C10-C28*	58.4	10.0	01/29/2026	ND	211	105	200	2.91	
EXT DRO >C28-C36	19.5	10.0	01/29/2026	ND					

Surrogate: 1-Chlorooctane 107 % 52.4-130

Surrogate: 1-Chlorooctadecane 113 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name Ensolum						BILL TO						ANALYSIS REQUEST					
Project Manage Kara Naegeli						P.O. #:											
Address: 601 N. Marinfeld St STE 400						Company Hilcorp Energy											
City: Midland						Attn: Billy Ginn											
Phone #: 512-709-2473						Address:											
Fax #:						City:											
Project #: 07A1988349						State:											
Project Owner: NMGSAU 1509						Phone #:											
Project Location: Lea County, NM						Fax #:											
Sample Name: Nicolas Christakos, Sherelle Brooks																	
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING										
NH0502	BH07 BH07 BH08 BH08 BH09	1' 3' 3' 5' 3'			GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :		DATE TIME										
							01/23/26 0853										
							0904										
							0935										
							0957										
							1034										
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Relinquished By: [Signature]								Received By: [Signature]									
Date: 1-28-26								Date: 01/23/26									
Time: 13:55								Time:									
Date:								Date:									
Time:								Time:									
Delivered By: (Circle One)								Observed Temp. °C 3.3°C									
Corrected Temp. °C 3.4°C								Sample Condition									
Cool Intact Yes ☒ No ☐								CHECKED BY: [Initials] AB									
Turnaround Time: Standard ☒ Rush ☐								Thermometer ID #140									
Correction Factor +0.1°C								Bacteria (only) Sample Condition									
Cool Intact Yes ☐ No ☐								Observed Temp. °C									
Corrected Temp. °C								REMARKS:									
All Results are emailed. Please provide Email address: knaegel@ensolum.com								Add'l Phone #:									
nchristakos@ensolum.com																	

† Cardinal cannot accept verbal changes. Please email changes to celov.knaega@cardinalllb.com

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

March 20, 2026

KARA NAEGELI

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NMGSAU 1509

Enclosed are the results of analyses for samples received by the laboratory on 02/16/26 15:38.

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.

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, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: NMGSAU 1509
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
20-Mar-26 10:46

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH 10 5'	H260924-01	Soil	16-Feb-26 10:57	16-Feb-26 15:38
BH 12 4'	H260924-02	Soil	16-Feb-26 12:39	16-Feb-26 15:38
BH 14 2.5'	H260924-03	Soil	16-Feb-26 13:53	16-Feb-26 15:38
LS 11 A 0.25'	H260924-04	Soil	16-Feb-26 11:06	16-Feb-26 15:38

03/20/26 - Client changed the sample ID on -04 (see COC). This is the revised report and will replace the one sent on 02/20/26.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: NMGSAU 1509
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
20-Mar-26 10:46

BH 10 5'
H260924-01 (Soil)

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

Chloride	304		16.0	mg/kg	4	6021645	AC	17-Feb-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6021709	JH	18-Feb-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141 6021709 JH 18-Feb-26 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B	

Surrogate: 1-Chlorooctane 96.8 % 52.4-130 6021651 JF 17-Feb-26 8015B

Surrogate: 1-Chlorooctadecane 95.7 % 39.9-141 6021651 JF 17-Feb-26 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: NMGSAU 1509
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
20-Mar-26 10:46

BH 12 4'
H260924-02 (Soil)

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

Chloride	640		16.0	mg/kg	4	6021645	AC	17-Feb-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6021709	JH	18-Feb-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	70.4-141		6021709	JH	18-Feb-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B	

Surrogate: 1-Chlorooctane			96.1 %	52.4-130		6021651	JF	17-Feb-26	8015B	
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Surrogate: 1-Chlorooctadecane			95.9 %	39.9-141		6021651	JF	17-Feb-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: NMGSAU 1509
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
20-Mar-26 10:46

BH 14 2.5'
H260924-03 (Soil)

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

Chloride	304		16.0	mg/kg	4	6021645	AC	17-Feb-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Toluene*	<0.050	0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	6021709	JH	18-Feb-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	113 %	70.4-141	6021709	JH	18-Feb-26	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B

Surrogate: 1-Chlorooctane	94.1 %	52.4-130	6021651	JF	17-Feb-26	8015B
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Surrogate: 1-Chlorooctadecane	94.0 %	39.9-141	6021651	JF	17-Feb-26	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: NMGSAU 1509
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
20-Mar-26 10:46

LS 11 A 0.25'
H260924-04 (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	6021645	AC	17-Feb-26	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6021709	JH	18-Feb-26	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6021709	JH	18-Feb-26	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %	70.4-141		6021709	JH	18-Feb-26	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	6021651	JF	17-Feb-26	8015B	

Surrogate: 1-Chlorooctane			90.5 %	52.4-130		6021651	JF	17-Feb-26	8015B	
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Surrogate: 1-Chlorooctadecane			89.1 %	39.9-141		6021651	JF	17-Feb-26	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: NMGSAU 1509
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
20-Mar-26 10:46

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 6021645 - 1:4 DI Water									
Blank (6021645-BLK1)					Prepared & Analyzed: 16-Feb-26				
Chloride	ND	16.0	mg/kg						
LCS (6021645-BS1)					Prepared & Analyzed: 16-Feb-26				
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (6021645-BSD1)					Prepared & Analyzed: 16-Feb-26				
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20

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Analytical Results For:

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

Project: NMGSAU 1509
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
20-Mar-26 10:46

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 6021709 - Volatiles**Blank (6021709-BLK1)**

Prepared: 17-Feb-26 Analyzed: 18-Feb-26

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)	0.0547		mg/kg	0.0500		109	70.4-141			

LCS (6021709-BS1)

Prepared: 17-Feb-26 Analyzed: 18-Feb-26

Benzene	2.24	0.050	mg/kg	2.00		112	71-111			BS-3
Toluene	2.21	0.050	mg/kg	2.00		111	75-116			
Ethylbenzene	2.26	0.050	mg/kg	2.00		113	74.2-119			
m,p-Xylene	4.61	0.100	mg/kg	4.00		115	72.5-123			
o-Xylene	2.18	0.050	mg/kg	2.00		109	70.5-124			
Total Xylenes	6.80	0.150	mg/kg	6.00		113	72.2-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500		104	70.4-141			

LCS Dup (6021709-BSD1)

Prepared: 17-Feb-26 Analyzed: 18-Feb-26

Benzene	2.19	0.050	mg/kg	2.00		109	71-111	2.50	17.6	
Toluene	2.17	0.050	mg/kg	2.00		109	75-116	1.83	14.8	
Ethylbenzene	2.23	0.050	mg/kg	2.00		111	74.2-119	1.35	14.2	
m,p-Xylene	4.58	0.100	mg/kg	4.00		115	72.5-123	0.752	13.6	
o-Xylene	2.18	0.050	mg/kg	2.00		109	70.5-124	0.445	13.7	
Total Xylenes	6.76	0.150	mg/kg	6.00		113	72.2-123	0.653	13.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	70.4-141			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: NMGSAU 1509
Project Number: 07A1988349
Project Manager: KARA NAEGELI
Fax To:

Reported:
20-Mar-26 10:46

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 6021651 - General Prep - Organics**Blank (6021651-BLK1)**

Prepared: 16-Feb-26 Analyzed: 17-Feb-26

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	44.6		mg/kg	50.0		89.2	52.4-130		
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.2	39.9-141		

LCS (6021651-BS1)

Prepared: 16-Feb-26 Analyzed: 17-Feb-26

GRO C6-C10	203	10.0	mg/kg	200		101	78.7-123		
DRO >C10-C28	204	10.0	mg/kg	200		102	74.8-123		
Total TPH C6-C28	407	10.0	mg/kg	400		102	78.6-121		
Surrogate: 1-Chlorooctane	51.8		mg/kg	50.0		104	52.4-130		
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	39.9-141		

LCS Dup (6021651-BS1)

Prepared: 16-Feb-26 Analyzed: 17-Feb-26

GRO C6-C10	187	10.0	mg/kg	200		93.3	78.7-123	8.37	11.3
DRO >C10-C28	193	10.0	mg/kg	200		96.5	74.8-123	5.71	10.9
Total TPH C6-C28	380	10.0	mg/kg	400		94.9	78.6-121	7.03	10.5
Surrogate: 1-Chlorooctane	46.3		mg/kg	50.0		92.5	52.4-130		
Surrogate: 1-Chlorooctadecane	47.0		mg/kg	50.0		94.0	39.9-141		

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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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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name Ensolum Project Manager Kara Naegeli Address: 601 N. Marlenfeld St STE 400 City: Midland St TX Zip: 79701 Phone #: 512-709-2473 Fax #: Project #: 07A1988349 Project Owner: Hilcorp Project Name: NMGS AU 1509 Project Location: Lea County, NM Sampler Name: Nicolas Christakos				BILL TO P.O. # Company Hilcorp Attn: Billy Ginn Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
FOR LAB USE ONLY				TPH 8015 BTEX 8015 Chloride 4500 Hold							
Lab I.D. H600924 Sample I.D. BH10 Sample Depth 5' (G)RAB OR (C)OMP. G-1 # CONTAINERS 1 MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL ☒ OTHER:				DATE 02/16/26 TIME 1057 DATE 02/16/26 TIME 1339 DATE 02/16/26 TIME 1106							
Relinquished By: [Signature] Date: 2/16/26 Time: 1538 Received By: [Signature] Date: 2/16/26 Time:				Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address: Knaegeli@ensolum.com Nchristakos@ensolum.com REMARKS: * Customer suggested ID changes.							
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25				Observed Temp. °C 14.4 Corrected Temp. °C 15.1 Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☐ Checked By: [Signature]				Turnaround Time: Standard ☒ Rush ☐ Thermometer ID #140 Correction Factor +0.3°C -0.1°C Bacteria (only) Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☐ Corrected Temp. °C			



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

March 11, 2026

KALEI JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NMGSAU 1509

Enclosed are the results of analyses for samples received by the laboratory on 03/05/26 15:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KALEI JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2026
 Reported: 03/11/2026
 Project Name: NMGSAU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 03/05/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 11 7' (H261263-01)

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	03/06/2026	ND	1.99	99.7	2.00	2.93	
Toluene*	<0.050	0.050	03/06/2026	ND	2.04	102	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/06/2026	ND	2.13	107	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/06/2026	ND	6.21	104	6.00	9.54	
Total BTEx	<0.300	0.300	03/06/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	03/06/2026	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2026	ND	224	112	200	9.85	
DRO >C10-C28*	<10.0	10.0	03/06/2026	ND	198	99.2	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	03/06/2026	ND					

Surrogate: 1-Chlorooctane 84.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 03/05/2026
Reported: 03/11/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 03/05/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 08 6' (H261263-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/06/2026	ND	1.99	99.7	2.00	2.93		
Toluene*	<0.050	0.050	03/06/2026	ND	2.04	102	2.00	8.40		
Ethylbenzene*	<0.050	0.050	03/06/2026	ND	2.13	107	2.00	7.80		
Total Xylenes*	<0.150	0.150	03/06/2026	ND	6.21	104	6.00	9.54		
Total BTEx	<0.300	0.300	03/06/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/06/2026	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2026	ND	224	112	200	9.85	
DRO >C10-C28*	<10.0	10.0	03/06/2026	ND	198	99.2	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	03/06/2026	ND					

Surrogate: 1-Chlorooctane 84.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KALEI JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2026
 Reported: 03/11/2026
 Project Name: NMGS AU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 03/05/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 12 11' (H261263-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/06/2026	ND	1.99	99.7	2.00	2.93		
Toluene*	<0.050	0.050	03/06/2026	ND	2.04	102	2.00	8.40		
Ethylbenzene*	<0.050	0.050	03/06/2026	ND	2.13	107	2.00	7.80		
Total Xylenes*	<0.150	0.150	03/06/2026	ND	6.21	104	6.00	9.54		
Total BTEx	<0.300	0.300	03/06/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	03/06/2026	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2026	ND	224	112	200	9.85	
DRO >C10-C28*	<10.0	10.0	03/06/2026	ND	198	99.2	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	03/06/2026	ND					

Surrogate: 1-Chlorooctane 87.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 85.5 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KALEI JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2026
 Reported: 03/11/2026
 Project Name: NMGS AU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 03/05/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 13 5' (H261263-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/06/2026	ND	1.99	99.7	2.00	2.93		
Toluene*	<0.050	0.050	03/06/2026	ND	2.04	102	2.00	8.40		
Ethylbenzene*	<0.050	0.050	03/06/2026	ND	2.13	107	2.00	7.80		
Total Xylenes*	<0.150	0.150	03/06/2026	ND	6.21	104	6.00	9.54		
Total BTEx	<0.300	0.300	03/06/2026	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/06/2026	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2026	ND	224	112	200	9.85	
DRO >C10-C28*	<10.0	10.0	03/06/2026	ND	198	99.2	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	03/06/2026	ND					

Surrogate: 1-Chlorooctane 79.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KALEI JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2026
 Reported: 03/11/2026
 Project Name: NMGS AU 1509
 Project Number: 07A1988349
 Project Location: HILCORP - LEA CO NM

Sampling Date: 03/05/2026
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: BH 02 4' (H261263-06)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2026	ND	1.99	99.7	2.00	2.93	
Toluene*	<0.050	0.050	03/06/2026	ND	2.04	102	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/06/2026	ND	2.13	107	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/06/2026	ND	6.21	104	6.00	9.54	
Total BTX	<0.300	0.300	03/06/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/06/2026	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2026	ND	224	112	200	9.85	
DRO >C10-C28*	<10.0	10.0	03/06/2026	ND	198	99.2	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	03/06/2026	ND					

Surrogate: 1-Chlorooctane 84.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
KALEI JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 03/05/2026
Reported: 03/11/2026
Project Name: NMGS AU 1509
Project Number: 07A1988349
Project Location: HILCORP - LEA CO NM

Sampling Date: 03/05/2026
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: BH 06 3' (H261263-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/06/2026	ND	1.99	99.7	2.00	2.93	
Toluene*	<0.050	0.050	03/06/2026	ND	2.04	102	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/06/2026	ND	2.13	107	2.00	7.80	
Total Xylenes*	<0.150	0.150	03/06/2026	ND	6.21	104	6.00	9.54	
Total BTX	<0.300	0.300	03/06/2026	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	03/06/2026	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: JF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2026	ND	224	112	200	9.85	
DRO >C10-C28*	<10.0	10.0	03/06/2026	ND	198	99.2	200	11.4	
EXT DRO >C28-C36	<10.0	10.0	03/06/2026	ND					

Surrogate: 1-Chlorooctane 89.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

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

QUESTIONS

Action 590856

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 590856
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2532859409
Incident Name	NAPP2532859409 NMGSAU 1507 @ 30-025-05761
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-05761] NORTH MONUMENT G/SA UNIT #007

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	NMGSAU 1507
Date Release Discovered	11/24/2025
Surface Owner	Private

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Injection Produced Water Released: 40 BBL Recovered: 0 BBL Lost: 40 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 590856

QUESTIONS (continued)

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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 06/03/2026
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QUESTIONS, Page 3

Action 590856

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 590856
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 500 and 1000 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 100 (ft.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (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	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1330
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1406
GRO+DRO (EPA SW-846 Method 8015M)	1130
BTEX (EPA SW-846 Method 8021B or 8260B)	0
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	12/19/2025
On what date will (or did) the final sampling or liner inspection occur	09/01/2026
On what date will (or was) the remediation complete(d)	09/01/2026
What is the estimated surface area (in square feet) that will be reclaimed	17525
What is the estimated volume (in cubic yards) that will be reclaimed	3000
What is the estimated surface area (in square feet) that will be remediated	17525
What is the estimated volume (in cubic yards) that will be remediated	3000
<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 590856

QUESTIONS (continued)

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QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 06/03/2026
<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 590856

QUESTIONS (continued)

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QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 590856

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	558303
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/06/2026
What was the (estimated) number of samples that were to be gathered	45
What was the sampling surface area in square feet	17530

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 590856

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 590856
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Site Characterization and Remediation Plan approved.	6/9/2026
michael.buchanan	Sampling notifications must be submitted at least two business days prior to conducting final sampling.	6/9/2026