ENSOLUM

June 24, 2025

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

Re: Closure Request
Atticus State Com #521H
Incident Number NAPP2403637444
Eddy County, New Mexico
NMSLO Lease Number: VB-1008-0002

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the Atticus State Com #521H (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved *Remediation Work Plan* (*Work Plan*), dated February 6, 2025, was to address impacts to soil resulting from a flash fire at the Site. COG is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further action for Incident Number NAPP2403637444.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 36, Township 25 South, Range 27 East, in Eddy County, New Mexico (32.0798°, -104.1438°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On February 4, 2024, equipment malfunction resulting in a flash fire. Measurement of released fluids was not feasible during the fire; however, there were no recovered fluids due to the fire burning off any standing fluid. COG immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) on February 5, 2024, and the release was assigned Incident Number NAPP2403637444.

Ensolum conducted Site assessment and delineation activities and presented the results in a *Work Plan,* attached as an appendix in this report. The *Work Plan* was submitted to the NMOCD on March 25, 2025, proposing excavation of impacted soil. Approval of the *Work Plan* was received from the NMOCD on March 26, 2025 with the following conditions:

> *Due to high karst, the site will need to be remediated to the strictest closure criteria standards from Table 1 of the OCD Spill Rule. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to*

define the edge of the release. Make sure that the edge of the release extent is accurately defined, especially around equipment.

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 are detailed in the NMOCD permitting portal Form C-141 Site Characterization section.

Based on the results of the Site characterization, documented in the approved *Work Plan*, the following NMOCD Table I Closure Criteria (Closure Criteria) apply to the contaminants of concerns (COCs):

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

CULTURAL PROPERTIES PROTECTION RULE

Since the release remained on pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

BIOLOGICAL COMPLIANCE AND REPORTING

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

- The Site is not located within an area of possible threatened, endangered, or sensitive wildlife and plant species.
- The soil type is classified as Reeves-Reagan loams according to the Web Soil Survey. Reeves-Reagan loams is not considered a sensitive soil by the NMSLO definition.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between June 9 and June 20, 2025, Ensolum personnel were onsite to oversee excavation activities in accordance with the approved *Work Plan*. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Delineation soil sampling analytical results provided the approximate footprint to excavate impacted soil from the Site (see Figure 2 and Table 1). The excavation was completed to depths between 1-foot and 2 feet below ground surface (bgs).

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS20 were collected from the floor of the excavation at depths ranging from 1-foot to 2 feet bgs. Composite soil samples SW01 through

SW07 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The excavation extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 3. Photographic documentation was completed during excavation activities, and a photographic log is included in Appendix A.

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 Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following 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 300.0.

The final excavation extent measured approximately 3,646 square feet. A total of approximately 270 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at the Lea Land Landfill Disposal Facility in Hobbs, New Mexico. The final excavation was fenced off pending backfilling.

The release remained on the well pad that is currently in operation for oil and gas production purposes. As such, the release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned (P&A'd) and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 NMAC. The backfill area will not be seeded since it is within the active well pad. Erosion control management is not necessary since the backfill area is within the active well pad.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all excavation floor and sidewall samples indicated COC concentrations were compliant with the Closure Criteria. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix B.

CLOSURE REQUEST

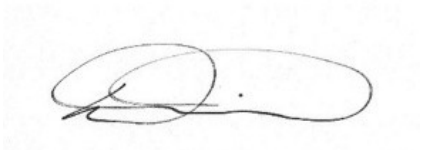
Excavation activities were conducted at the Site to address the February 2024 flash fire. Laboratory analytical results for the excavation soil samples, collected from the final excavation extents, indicated all COCs were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. COG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing Site conditions.

Excavation of impacted soil has mitigated impacts at the Site. COG believes these remediation actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2403637444.

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely,
Ensolum, LLC

Tabitha Guadian
Staff Geologist



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

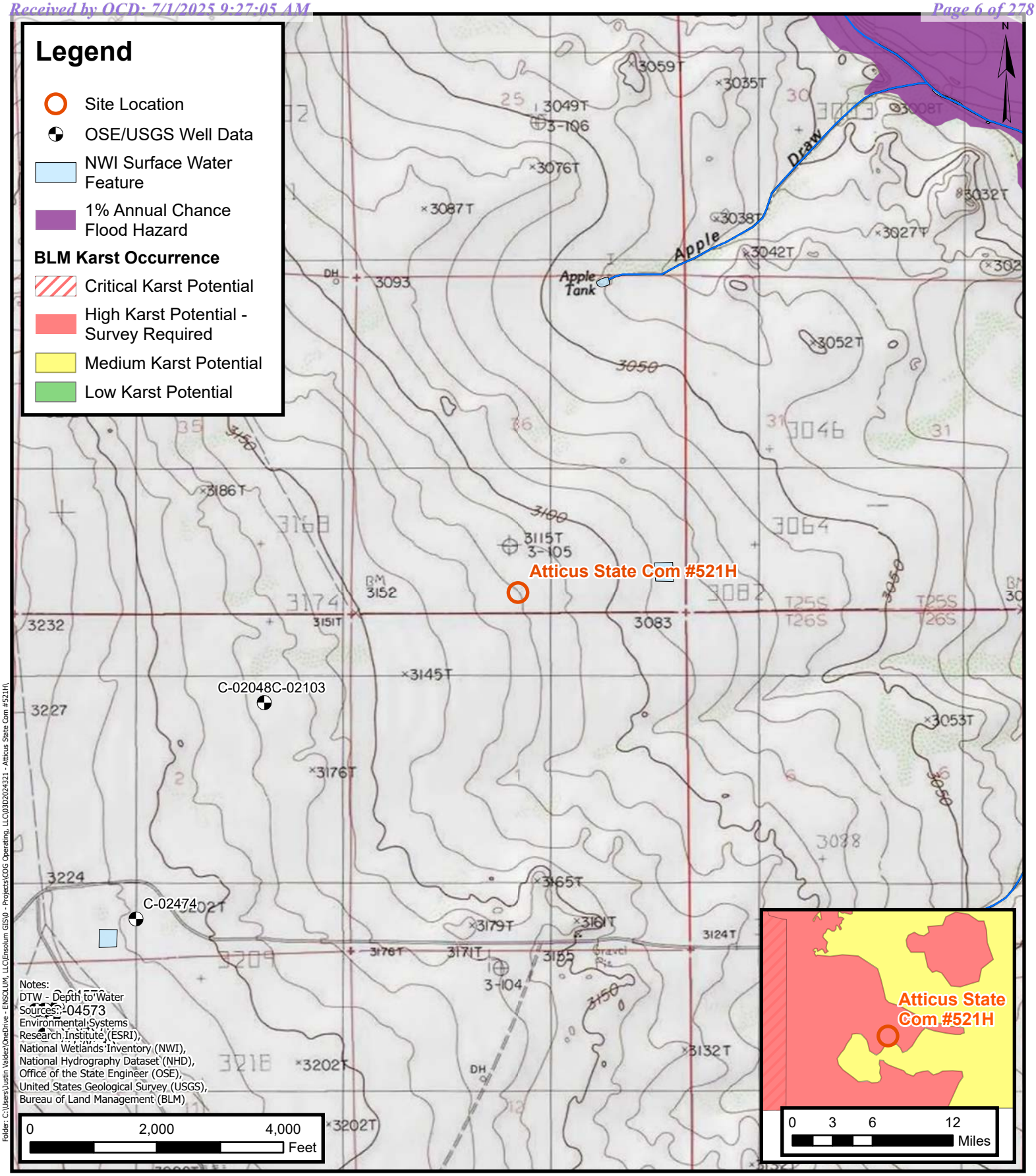
cc: Justin Carlile, ConocoPhillips Company
NMSLO

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Photographic Log
Appendix B	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix C	*Remediation Work Plan*, dated February 6, 2025

ENSOLUM

FIGURES



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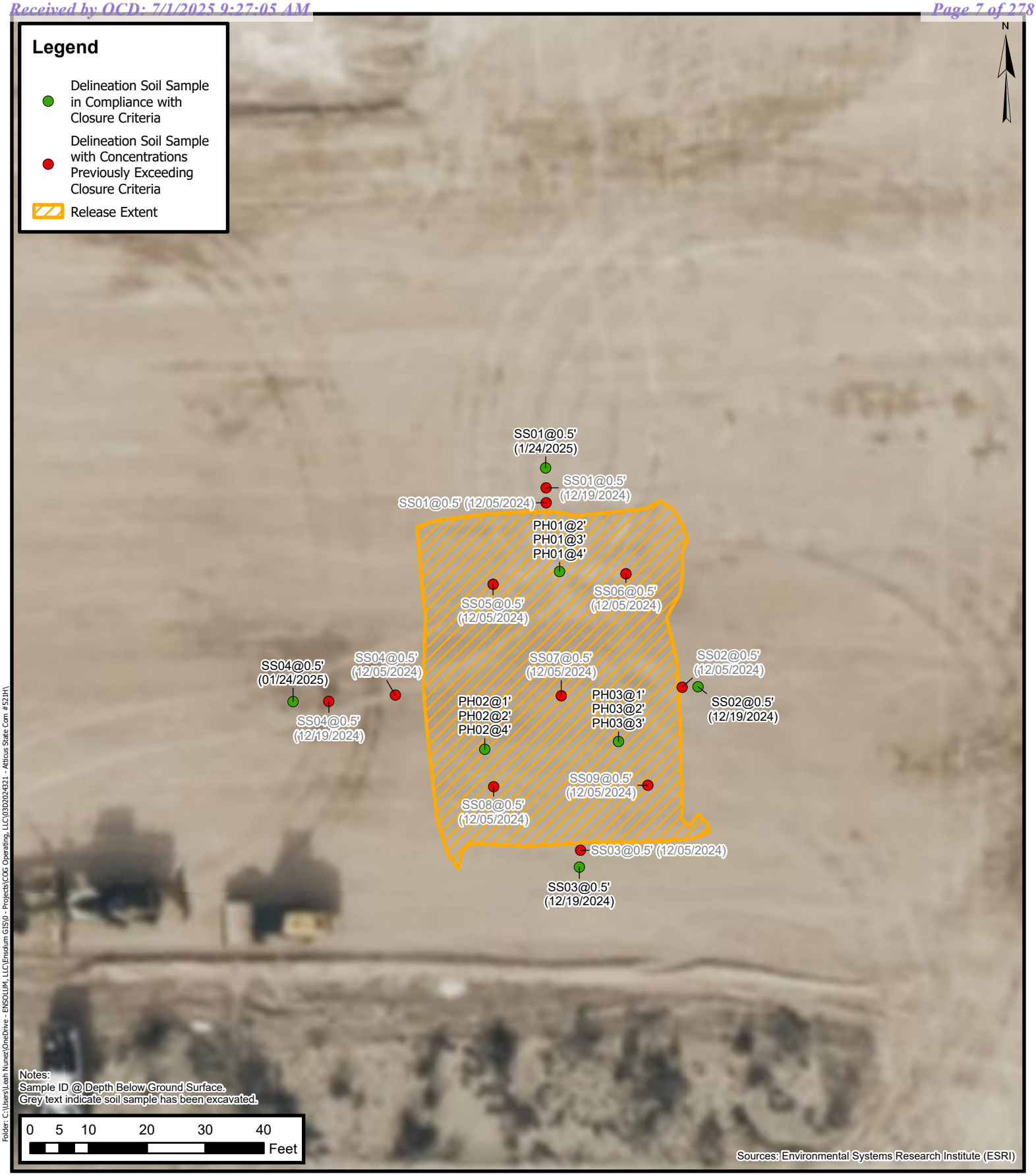
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

COG Operating, LLC
Atticus State Com #521H
Incident Number: NAPP2403637444
Unit N, Section 36, T 25S, R 27E
Eddy County, New Mexico

FIGURE 1



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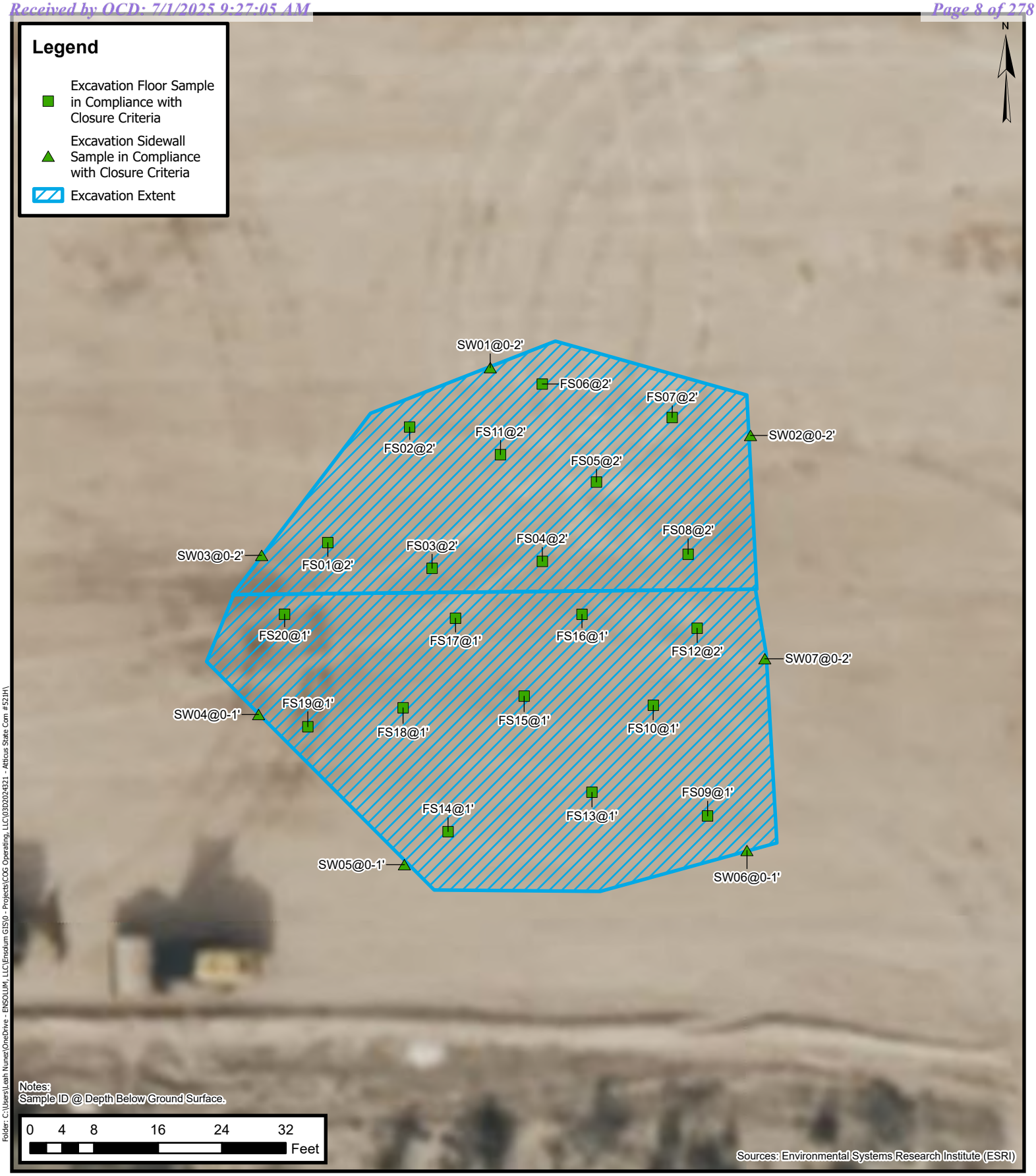
Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

COG Operating, LLC
Atticus State Com #521H
Incident Number: NAPP2403637444
Unit N, Section 36, T 25S, R 27E
Eddy County, New Mexico

FIGURE 2



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Environmental, Engineering and Hydrogeologic Consultants

Excavation Soil Sample Locations

COG Operating, LLC
Atticus State Com #521H
Incident Number: NAPP2403637444
Unit N, Section 36, T 25S, R 27E
Eddy County, New Mexico

FIGURE 3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Atticus State Com #521H
COG Operating, LLC
Eddy 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
Assessment Soil Samples										
~~SS01~~	~~12/05/2024~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.9~~	~~1,340~~	~~<49.9~~	~~1,340~~	~~**1,340**~~	~~436~~
~~SS01~~	~~12/19/2024~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**617**~~
SS01	01/24/2025	0.5	<0.00200	<0.00399	<49.8	76.6	<49.8	76.6	76.6	26.2
~~SS02~~	~~12/05/2024~~	~~0.5~~	~~<0.00202~~	~~<0.00404~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**922**~~
SS02	12/19/2024	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	328
~~SS03~~	~~12/05/2024~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<49.9~~	~~622~~	~~<49.9~~	~~622~~	~~**622**~~	~~**777**~~
SS03	12/19/2024	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	407
~~SS04~~	~~12/05/2024~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.8~~	~~762~~	~~<49.8~~	~~762~~	~~**762**~~	~~**858**~~
~~SS04~~	~~12/19/2024~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~**802**~~
SS04	01/24/2025	0.5	<0.00202	<0.00404	<49.6	72.6	<49.6	72.6	72.6	32.1
~~SS05~~	~~12/05/2024~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~928~~	~~<50.0~~	~~928~~	~~**928**~~	~~544~~
~~SS06~~	~~12/05/2024~~	~~0.5~~	~~<0.00202~~	~~<0.00404~~	~~<49.9~~	~~949~~	~~<49.9~~	~~949~~	~~**949**~~	~~**698**~~
~~SS07~~	~~12/05/2024~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.8~~	~~277~~	~~<49.8~~	~~277~~	~~**277**~~	~~**2,110**~~
~~SS08~~	~~12/05/2024~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<49.9~~	~~292~~	~~<49.9~~	~~292~~	~~**292**~~	~~**3,070**~~
~~SS09~~	~~12/05/2024~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.7~~	~~727~~	~~<49.7~~	~~727~~	~~**727**~~	~~**1,770**~~
PH01	12/19/2024	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	253
PH01	12/19/2024	3	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	261
PH01	12/19/2024	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	106
PH02	12/19/2024	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	272
PH02	12/19/2024	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	152
PH02	12/19/2024	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	36.8
PH03	12/19/2024	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	282
PH03	12/19/2024	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	155
PH03	12/19/2024	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	126

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Atticus State Com #521H
COG Operating, LLC
Eddy 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
Excavation Floor Soil Samples										
FS01	06/10/2025	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	170
FS02	06/10/2025	2	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	168
FS03	06/10/2025	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	167
FS04	06/10/2025	2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	167
FS05	06/10/2025	2	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	162
FS06	06/10/2025	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	149
FS07	06/10/2025	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	204
FS08	06/10/2025	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	99.2
FS09	06/13/2025	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	307
FS10	06/20/2025	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	99.3
FS11	06/13/2025	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	129
FS12	06/13/2025	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	121
FS13	06/20/2025	1	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	100
FS14	06/20/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	113
FS15	06/20/2025	1	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	117
FS16	06/20/2025	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	113
FS17	06/20/2025	1	<0.00199	<0.00398	<49.7	67.8	<49.7	67.8	67.8	318
FS18	06/20/2025	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	137
FS19	06/20/2025	1	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	181
FS20	06/20/2025	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	178
Excavation Sidewall Soil Samples										
SW01	06/10/2025	0 - 2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	115
SW02	06/10/2025	0 - 2	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	206
SW03	06/13/2025	0 - 2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	186
SW04	06/13/2025	0 - 1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	388

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Atticus State Com #521H
COG Operating, LLC
Eddy 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**
SW05	06/13/2025	0 - 1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	576
SW06	06/13/2025	0 - 1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	319
SW07	06/13/2025	0 - 2	<0.00201	<0.00402	<50.0	68.4	<50.0	68.4	68.4	190

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 indicates sample has been excavated.

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APPENDIX A

Photographic Log

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Photographic Log
COG Operating, LLC
Atticus State Com #521H
Incident Number NAPP2403637444

Photograph: 1 Date: 6/10/2025
Description: Excavation Activities
View: Northeast

Photograph: 2 Date: 6/10/2025
Description: Excavation Activites
View: Southeast

Photograph: 3 Date: 6/20/2025
Description: Excavation Activities
View: Northeast

Photograph: 4 Date: 6/20/2025
Description: Excavation Activites
View: Northwest

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APPENDIX B

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Atticus State Com #54
Eddy County

JOB NUMBER

880-51849-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

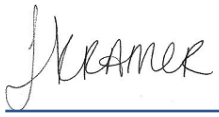
Eurofins Midland

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

Client: Ensolum
Project/Site: Atticus State Com #54

Laboratory Job ID: 880-51849-1
SDG: Eddy County

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 880-51849-1
Project/Site: Atticus State Com #54 SDG: Eddy County

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.
F2	MS/MSD RPD 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 Job ID: 880-51849-1
Project: Atticus State Com #54

Job ID: 880-51849-1 Eurofins Midland

Job Narrative
880-51849-1

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 12/5/2024 4:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (880-51849-1), SS02 (880-51849-2), SS03 (880-51849-3), SS04 (880-51849-4), SS05 (880-51849-5), SS06 (880-51849-6), SS07 (880-51849-7), SS08 (880-51849-8) and SS09 (880-51849-9).

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 880-97199 and analytical batch 880-97226 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.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-97215 and analytical batch 880-97228 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was 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 880-97201 and analytical batch 880-97213 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.

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 880-51849-1
Date Collected: 12/05/24 11:12
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/06/24 08:10*	*12/06/24 11:55*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/06/24 08:10*	*12/06/24 11:55*	*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			12/06/24 11:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1340**		49.9		mg/Kg			12/06/24 09:54	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		12/05/24 16:25	12/06/24 09:54	1
Diesel Range Organics (Over C10-C28)	**1340**	**F1**	49.9		mg/Kg		12/05/24 16:25	12/06/24 09:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*12/05/24 16:25*	*12/06/24 09:54*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/05/24 16:25*	*12/06/24 09:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**436**		10.0		mg/Kg			12/06/24 09:42	1

Client Sample ID: SS02

Lab Sample ID: 880-51849-2
Date Collected: 12/05/24 11:16
Matrix: Solid
Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/06/24 08:10	12/06/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS02

Lab Sample ID: 880-51849-2
Date Collected: 12/05/24 11:16
Matrix: Solid
Date Received: 12/05/24 16:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/06/24 12:16	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			12/06/24 10:41	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		12/05/24 16:25	12/06/24 10:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 10:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*12/05/24 16:25*	*12/06/24 10:41*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/05/24 16:25*	*12/06/24 10:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**922**		10.1		mg/Kg			12/06/24 09:47	1

Client Sample ID: SS03

Lab Sample ID: 880-51849-3
Date Collected: 12/05/24 11:20
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 12:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 12:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 12:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/24 08:10	12/06/24 12:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 12:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/24 08:10	12/06/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:36*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:36*	*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			12/06/24 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**622**		49.9		mg/Kg			12/06/24 10:58	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		12/05/24 16:25	12/06/24 10:58	1
Diesel Range Organics (Over C10-C28)	**622**		49.9		mg/Kg		12/05/24 16:25	12/06/24 10:58	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS03

Lab Sample ID: 880-51849-3
Matrix: Solid
Date Collected: 12/05/24 11:20
Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*12/05/24 16:25*	*12/06/24 10:58*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/05/24 16:25*	*12/06/24 10:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**777**		10.1		mg/Kg			12/06/24 10:03	1

Client Sample ID: SS04

Lab Sample ID: 880-51849-4
Matrix: Solid
Date Collected: 12/05/24 11:24
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 12:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 12:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 12:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 12:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 12:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:57*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:57*	*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			12/06/24 12:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**762**		49.8		mg/Kg			12/06/24 11:14	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	49.8		mg/Kg		12/05/24 16:25	12/06/24 11:14	1
Diesel Range Organics (Over C10-C28)	**762**		49.8		mg/Kg		12/05/24 16:25	12/06/24 11:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/05/24 16:25*	*12/06/24 11:14*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/05/24 16:25*	*12/06/24 11:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**858**		9.96		mg/Kg			12/06/24 10:08	1

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS05

Lab Sample ID: 880-51849-5
Date Collected: 12/05/24 11:28
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 13:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/24 08:10	12/06/24 13:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/24 08:10	12/06/24 13:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/24 08:10	12/06/24 13:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/24 08:10	12/06/24 13:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/24 08:10	12/06/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:17*	*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			12/06/24 13:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**928**		50.0		mg/Kg			12/06/24 09:54	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		12/06/24 08:21	12/06/24 09:54	1
Diesel Range Organics (Over C10-C28)	**928**	**F1 F2**	50.0		mg/Kg		12/06/24 08:21	12/06/24 09:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/24 08:21	12/06/24 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/06/24 08:21*	*12/06/24 09:54*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/06/24 08:21*	*12/06/24 09:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**544**		9.92		mg/Kg			12/06/24 10:14	1

Client Sample ID: SS06

Lab Sample ID: 880-51849-6
Date Collected: 12/05/24 11:31
Matrix: Solid
Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/06/24 08:10	12/06/24 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:38*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS06

Lab Sample ID: 880-51849-6
Date Collected: 12/05/24 11:31
Matrix: Solid
Date Received: 12/05/24 16:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/06/24 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**949**		49.9		mg/Kg			12/06/24 10:41	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		12/06/24 08:21	12/06/24 10:41	1
Diesel Range Organics (Over C10-C28)	**949**		49.9		mg/Kg		12/06/24 08:21	12/06/24 10:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/24 08:21	12/06/24 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*12/06/24 08:21*	*12/06/24 10:41*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/06/24 08:21*	*12/06/24 10:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**698**		10.0		mg/Kg			12/06/24 10:19	1

Client Sample ID: SS07

Lab Sample ID: 880-51849-7
Date Collected: 12/05/24 11:36
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 13:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 13:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 13:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 13:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 13:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:58*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:58*	*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			12/06/24 13:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**277**		49.8		mg/Kg			12/06/24 10:58	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	49.8		mg/Kg		12/06/24 08:21	12/06/24 10:58	1
Diesel Range Organics (Over C10-C28)	**277**		49.8		mg/Kg		12/06/24 08:21	12/06/24 10:58	1

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Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS07

Lab Sample ID: 880-51849-7
Date Collected: 12/05/24 11:36
Matrix: Solid
Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/06/24 08:21*	*12/06/24 10:58*	*1*
o-Terphenyl	*95*		*70 - 130*	*12/06/24 08:21*	*12/06/24 10:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2110**		99.2		mg/Kg			12/06/24 10:24	10

Client Sample ID: SS08

Lab Sample ID: 880-51849-8
Date Collected: 12/05/24 11:40
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 14:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 14:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 14:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/24 08:10	12/06/24 14:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 14:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/24 08:10	12/06/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/06/24 08:10*	*12/06/24 14:18*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/06/24 08:10*	*12/06/24 14:18*	*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			12/06/24 14:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**292**		49.9		mg/Kg			12/06/24 11:14	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		12/06/24 08:21	12/06/24 11:14	1
Diesel Range Organics (Over C10-C28)	**292**		49.9		mg/Kg		12/06/24 08:21	12/06/24 11:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/24 08:21	12/06/24 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/06/24 08:21*	*12/06/24 11:14*	*1*
o-Terphenyl	*96*		*70 - 130*	*12/06/24 08:21*	*12/06/24 11:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3070**	**F1**	101		mg/Kg			12/06/24 10:29	10

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS09

Date Collected: 12/05/24 11:44
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-9

Matrix: Solid

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		12/06/24 08:10	12/06/24 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 14:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 14:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 14:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/06/24 08:10*	*12/06/24 14:39*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/06/24 08:10*	*12/06/24 14:39*	*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			12/06/24 14:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**727**		49.7		mg/Kg			12/06/24 11:31	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		12/06/24 08:21	12/06/24 11:31	1
Diesel Range Organics (Over C10-C28)	**727**		49.7		mg/Kg		12/06/24 08:21	12/06/24 11:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/24 08:21	12/06/24 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*12/06/24 08:21*	*12/06/24 11:31*	*1*
o-Terphenyl	*97*		*70 - 130*	*12/06/24 08:21*	*12/06/24 11:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1770**		101		mg/Kg			12/06/24 10:45	10

Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-51849-1	SS01	116	97
880-51849-1 MS	SS01	107	97
880-51849-1 MSD	SS01	109	98
880-51849-2	SS02	120	94
880-51849-3	SS03	116	94
880-51849-4	SS04	125	96
880-51849-5	SS05	120	95
880-51849-6	SS06	118	95
880-51849-7	SS07	110	94
880-51849-8	SS08	120	96
880-51849-9	SS09	119	95
LCS 880-97212/1-A	Lab Control Sample	102	97
LCSD 880-97212/2-A	Lab Control Sample Dup	99	98
MB 880-97212/5-A	Method Blank	115	88

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-51849-1	SS01	94	86
880-51849-1 MS	SS01	97	85
880-51849-1 MSD	SS01	98	84
880-51849-2	SS02	108	86
880-51849-3	SS03	100	84
880-51849-4	SS04	104	87
880-51849-5	SS05	104	101
880-51849-5 MS	SS05	106	100
880-51849-5 MSD	SS05	105	99
880-51849-6	SS06	108	101
880-51849-7	SS07	104	95
880-51849-8	SS08	106	96
880-51849-9	SS09	101	97
LCS 880-97199/2-A	Lab Control Sample	114	102
LCS 880-97215/2-A	Lab Control Sample	98	98
LCSD 880-97199/3-A	Lab Control Sample Dup	106	97
LCSD 880-97215/3-A	Lab Control Sample Dup	107	110
MB 880-97199/1-A	Method Blank	96	77
MB 880-97215/1-A	Method Blank	104	98

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97212/5-A
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97212

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/06/24 08:10	12/06/24 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/06/24 08:10*	*12/06/24 11:34*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/06/24 08:10*	*12/06/24 11:34*	*1*

Lab Sample ID: LCS 880-97212/1-A
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97212

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1054		mg/Kg		105	70 - 130		
Toluene			0.100	0.1021		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1064		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2135		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1101		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-97212/2-A
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97212

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1101		mg/Kg		110	70 - 130	4	35
Toluene			0.100	0.1059		mg/Kg		106	70 - 130	4	35
Ethylbenzene			0.100	0.1104		mg/Kg		110	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2209		mg/Kg		110	70 - 130	3	35
o-Xylene			0.100	0.1138		mg/Kg		114	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-51849-1 MS
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08554		mg/Kg		86	70 - 130		
Toluene	<0.00200	U	0.100	0.08240		mg/Kg		82	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: 880-51849-1 MS
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08598		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1703		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.100	0.08838		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-51849-1 MSD
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97212

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	0.08935		mg/Kg		89	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.08873		mg/Kg		89	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.08937		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1776		mg/Kg		89	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.09097		mg/Kg		91	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-97199/1-A
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97199

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		12/05/24 16:25	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*12/05/24 16:25*	*12/06/24 04:08*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/05/24 16:25*	*12/06/24 04:08*	*1*

Lab Sample ID: LCS 880-97199/2-A
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97199

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1139		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1012		mg/Kg		101	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-97199/2-A
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97199

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-97199/3-A
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97199

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1120		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	955.0		mg/Kg		95	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-51849-1 MS
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	864.9		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1340	F1	996	797.7	F1	mg/Kg		-54	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-51849-1 MSD
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97199

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	<49.9	U	996	878.3		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1340	F1	996	811.7	F1	mg/Kg		-53	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	84		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: MB 880-97215/1-A
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97215

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		12/06/24 08:20	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/24 08:20	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/24 08:20	12/06/24 04:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/06/24 08:20*	*12/06/24 04:08*	*1*
o-Terphenyl	*98*		*70 - 130*	*12/06/24 08:20*	*12/06/24 04:08*	*1*

Lab Sample ID: LCS 880-97215/2-A
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	927.5		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	900.8		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

Lab Sample ID: LCSD 880-97215/3-A
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97215

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1095		mg/Kg		109	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 880-51849-5 MS
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: SS05
Prep Type: Total/NA
Prep Batch: 97215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	899.8		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	928	F1 F2	999	1567	F1	mg/Kg		64	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: 880-51849-5 MS
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: SS05
Prep Type: Total/NA
Prep Batch: 97215

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-51849-5 MSD
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: SS05
Prep Type: Total/NA
Prep Batch: 97215

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	891.5		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	928	F1 F2	999	852.2	F1 F2	mg/Kg		-8	70 - 130	59	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97201/1-A
Matrix: Solid
Analysis Batch: 97213

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			12/06/24 09:00	1

Lab Sample ID: LCS 880-97201/2-A
Matrix: Solid
Analysis Batch: 97213

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	238.9		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-97201/3-A
Matrix: Solid
Analysis Batch: 97213

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	239.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-51849-8 MS
Matrix: Solid
Analysis Batch: 97213

Client Sample ID: SS08
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3070	F1	2520	5137	F1	mg/Kg		82	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-51849-8 MSD
Matrix: Solid
Analysis Batch: 97213

Client Sample ID: SS08
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3070	F1	2520	5150	F1	mg/Kg		82	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

GC VOA

Prep Batch: 97212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	5035	
880-51849-2	SS02	Total/NA	Solid	5035	
880-51849-3	SS03	Total/NA	Solid	5035	
880-51849-4	SS04	Total/NA	Solid	5035	
880-51849-5	SS05	Total/NA	Solid	5035	
880-51849-6	SS06	Total/NA	Solid	5035	
880-51849-7	SS07	Total/NA	Solid	5035	
880-51849-8	SS08	Total/NA	Solid	5035	
880-51849-9	SS09	Total/NA	Solid	5035	
MB 880-97212/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97212/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97212/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51849-1 MS	SS01	Total/NA	Solid	5035	
880-51849-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 97229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8021B	97212
880-51849-2	SS02	Total/NA	Solid	8021B	97212
880-51849-3	SS03	Total/NA	Solid	8021B	97212
880-51849-4	SS04	Total/NA	Solid	8021B	97212
880-51849-5	SS05	Total/NA	Solid	8021B	97212
880-51849-6	SS06	Total/NA	Solid	8021B	97212
880-51849-7	SS07	Total/NA	Solid	8021B	97212
880-51849-8	SS08	Total/NA	Solid	8021B	97212
880-51849-9	SS09	Total/NA	Solid	8021B	97212
MB 880-97212/5-A	Method Blank	Total/NA	Solid	8021B	97212
LCS 880-97212/1-A	Lab Control Sample	Total/NA	Solid	8021B	97212
LCSD 880-97212/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97212
880-51849-1 MS	SS01	Total/NA	Solid	8021B	97212
880-51849-1 MSD	SS01	Total/NA	Solid	8021B	97212

Analysis Batch: 97306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	Total BTEX	
880-51849-2	SS02	Total/NA	Solid	Total BTEX	
880-51849-3	SS03	Total/NA	Solid	Total BTEX	
880-51849-4	SS04	Total/NA	Solid	Total BTEX	
880-51849-5	SS05	Total/NA	Solid	Total BTEX	
880-51849-6	SS06	Total/NA	Solid	Total BTEX	
880-51849-7	SS07	Total/NA	Solid	Total BTEX	
880-51849-8	SS08	Total/NA	Solid	Total BTEX	
880-51849-9	SS09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8015NM Prep	
880-51849-2	SS02	Total/NA	Solid	8015NM Prep	
880-51849-3	SS03	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

GC Semi VOA (Continued)

Prep Batch: 97199 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-1 MS	SS01	Total/NA	Solid	8015NM Prep	
880-51849-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 97215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-5	SS05	Total/NA	Solid	8015NM Prep	
880-51849-6	SS06	Total/NA	Solid	8015NM Prep	
880-51849-7	SS07	Total/NA	Solid	8015NM Prep	
880-51849-8	SS08	Total/NA	Solid	8015NM Prep	
880-51849-9	SS09	Total/NA	Solid	8015NM Prep	
MB 880-97215/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97215/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-5 MS	SS05	Total/NA	Solid	8015NM Prep	
880-51849-5 MSD	SS05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8015B NM	97199
880-51849-2	SS02	Total/NA	Solid	8015B NM	97199
880-51849-3	SS03	Total/NA	Solid	8015B NM	97199
880-51849-4	SS04	Total/NA	Solid	8015B NM	97199
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015B NM	97199
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97199
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97199
880-51849-1 MS	SS01	Total/NA	Solid	8015B NM	97199
880-51849-1 MSD	SS01	Total/NA	Solid	8015B NM	97199

Analysis Batch: 97228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-5	SS05	Total/NA	Solid	8015B NM	97215
880-51849-6	SS06	Total/NA	Solid	8015B NM	97215
880-51849-7	SS07	Total/NA	Solid	8015B NM	97215
880-51849-8	SS08	Total/NA	Solid	8015B NM	97215
880-51849-9	SS09	Total/NA	Solid	8015B NM	97215
MB 880-97215/1-A	Method Blank	Total/NA	Solid	8015B NM	97215
LCS 880-97215/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97215
LCSD 880-97215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97215
880-51849-5 MS	SS05	Total/NA	Solid	8015B NM	97215
880-51849-5 MSD	SS05	Total/NA	Solid	8015B NM	97215

Analysis Batch: 97296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8015 NM	
880-51849-2	SS02	Total/NA	Solid	8015 NM	
880-51849-3	SS03	Total/NA	Solid	8015 NM	
880-51849-4	SS04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 97296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-5	SS05	Total/NA	Solid	8015 NM	
880-51849-6	SS06	Total/NA	Solid	8015 NM	
880-51849-7	SS07	Total/NA	Solid	8015 NM	
880-51849-8	SS08	Total/NA	Solid	8015 NM	
880-51849-9	SS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Soluble	Solid	DI Leach	
880-51849-2	SS02	Soluble	Solid	DI Leach	
880-51849-3	SS03	Soluble	Solid	DI Leach	
880-51849-4	SS04	Soluble	Solid	DI Leach	
880-51849-5	SS05	Soluble	Solid	DI Leach	
880-51849-6	SS06	Soluble	Solid	DI Leach	
880-51849-7	SS07	Soluble	Solid	DI Leach	
880-51849-8	SS08	Soluble	Solid	DI Leach	
880-51849-9	SS09	Soluble	Solid	DI Leach	
MB 880-97201/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97201/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97201/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51849-8 MS	SS08	Soluble	Solid	DI Leach	
880-51849-8 MSD	SS08	Soluble	Solid	DI Leach	

Analysis Batch: 97213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Soluble	Solid	300.0	97201
880-51849-2	SS02	Soluble	Solid	300.0	97201
880-51849-3	SS03	Soluble	Solid	300.0	97201
880-51849-4	SS04	Soluble	Solid	300.0	97201
880-51849-5	SS05	Soluble	Solid	300.0	97201
880-51849-6	SS06	Soluble	Solid	300.0	97201
880-51849-7	SS07	Soluble	Solid	300.0	97201
880-51849-8	SS08	Soluble	Solid	300.0	97201
880-51849-9	SS09	Soluble	Solid	300.0	97201
MB 880-97201/1-A	Method Blank	Soluble	Solid	300.0	97201
LCS 880-97201/2-A	Lab Control Sample	Soluble	Solid	300.0	97201
LCSD 880-97201/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97201
880-51849-8 MS	SS08	Soluble	Solid	300.0	97201
880-51849-8 MSD	SS08	Soluble	Solid	300.0	97201

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS01
Date Collected: 12/05/24 11:12
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 11:55
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 11:55
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 09:54
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 09:54
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 09:42

Client Sample ID: SS02
Date Collected: 12/05/24 11:16
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 12:16
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 12:16
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:41
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 10:41
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 09:47

Client Sample ID: SS03
Date Collected: 12/05/24 11:20
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 12:36
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 12:36
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:58
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 10:58
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:03

Client Sample ID: SS04
Date Collected: 12/05/24 11:24
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 12:57
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 12:57

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS04
Date Collected: 12/05/24 11:24
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 11:14
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 11:14
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:08

Client Sample ID: SS05
Date Collected: 12/05/24 11:28
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 13:17
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 13:17
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 09:54
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 09:54
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:14

Client Sample ID: SS06
Date Collected: 12/05/24 11:31
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 13:38
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 13:38
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:41
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 10:41
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:19

Client Sample ID: SS07
Date Collected: 12/05/24 11:36
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 13:58
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 13:58
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:58
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 10:58

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS07

Lab Sample ID: 880-51849-7
Matrix: Solid
Date Collected: 12/05/24 11:36
Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		10	97213	CH	EET MID	12/06/24 10:24

Client Sample ID: SS08

Lab Sample ID: 880-51849-8
Matrix: Solid
Date Collected: 12/05/24 11:40
Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 14:18
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 14:18
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 11:14
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 11:14
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		10	97213	CH	EET MID	12/06/24 10:29

Client Sample ID: SS09

Lab Sample ID: 880-51849-9
Matrix: Solid
Date Collected: 12/05/24 11:44
Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 14:39
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 14:39
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 11:31
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 11:31
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		10	97213	CH	EET MID	12/06/24 10:45

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51849-1	SS01	Solid	12/05/24 11:12	12/05/24 16:56
880-51849-2	SS02	Solid	12/05/24 11:16	12/05/24 16:56
880-51849-3	SS03	Solid	12/05/24 11:20	12/05/24 16:56
880-51849-4	SS04	Solid	12/05/24 11:24	12/05/24 16:56
880-51849-5	SS05	Solid	12/05/24 11:28	12/05/24 16:56
880-51849-6	SS06	Solid	12/05/24 11:31	12/05/24 16:56
880-51849-7	SS07	Solid	12/05/24 11:36	12/05/24 16:56
880-51849-8	SS08	Solid	12/05/24 11:40	12/05/24 16:56
880-51849-9	SS09	Solid	12/05/24 11:44	12/05/24 16:56

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-51849-1
SDG Number: Eddy County

Login Number: 51849
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/2/2025 3:59:53 PM

JOB DESCRIPTION

Atticus State Com #521
Eddy County

JOB NUMBER

880-52521-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

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

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

Authorization

Generated
1/2/2025 3:59:53 PM

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

Client: Ensolum
Project/Site: Atticus State Com #521

Laboratory Job ID: 880-52521-1
SDG: Eddy County

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
S1+	Surrogate recovery exceeds control limits, high biased.
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 Job ID: 880-52521-1
Project: Atticus State Com #521

Job ID: 880-52521-1 Eurofins Midland

Job Narrative
880-52521-1

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 12/19/2024 5:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.0°C.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98490 and analytical batch 880-98345 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.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98957 and analytical batch 880-99133 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.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03 (880-52521-13), (LCS 880-98957/2-A), (LCSD 880-98957/3-A), (MB 880-98957/1-A), (880-52521-A-13-D MS) and (880-52521-A-13-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-98956 and analytical batch 880-99130 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was 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 880-98552 and analytical batch 880-98577 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.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98896 and analytical batch 880-98925 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.

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 880-52521-1
Matrix: Solid
Date Collected: 12/19/24 10:40
Date Received: 12/19/24 17:35
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 F1	0.00199		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		12/20/24 14:34	12/21/24 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:41*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:41*	*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			12/21/24 08:41	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			01/01/25 00:15	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		12/27/24 13:36	01/01/25 00:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 00:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*12/27/24 13:36*	*01/01/25 00:15*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/27/24 13:36*	*01/01/25 00:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**617**		9.96		mg/Kg			12/24/24 18:01	1

Client Sample ID: SS02

Lab Sample ID: 880-52521-2
Matrix: Solid
Date Collected: 12/19/24 10:15
Date Received: 12/19/24 17:35
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 09:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:01*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS02

Lab Sample ID: 880-52521-2
Matrix: Solid
Date Collected: 12/19/24 10:15
Date Received: 12/19/24 17:35
Sample Depth: 0.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/21/24 09:01	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			01/01/25 00:36	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		12/27/24 13:36	01/01/25 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 00:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 00:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*12/27/24 13:36*	*01/01/25 00:36*	*1*
o-Terphenyl	*112*		*70 - 130*	*12/27/24 13:36*	*01/01/25 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**328**		10.0	mg/Kg			12/24/24 18:06	1

Client Sample ID: SS03

Lab Sample ID: 880-52521-3
Matrix: Solid
Date Collected: 12/19/24 10:20
Date Received: 12/19/24 17:35
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		12/20/24 14:34	12/21/24 09:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 09:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:21*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/21/24 09:21	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			01/01/25 01:17	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS03

Lab Sample ID: 880-52521-3
Matrix: Solid
Date Collected: 12/19/24 10:20
Date Received: 12/19/24 17:35
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	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 01:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 01:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:17*	*1*
o-Terphenyl	*118*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**407**		9.98		mg/Kg			12/24/24 18:12	1

Client Sample ID: SS04

Lab Sample ID: 880-52521-4
Matrix: Solid
Date Collected: 12/19/24 10:55
Date Received: 12/19/24 17:35
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		12/20/24 14:34	12/21/24 09:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 09:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 09:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 09:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 09:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 09:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:42*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:42*	*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			12/21/24 09:42	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			01/01/25 01:38	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		12/27/24 13:36	01/01/25 01:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 01:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:38*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS04

Lab Sample ID: 880-52521-4
Matrix: Solid
Date Collected: 12/19/24 10:55
Date Received: 12/19/24 17:35
Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	802		50.0		mg/Kg			12/27/24 13:32	5

Client Sample ID: PH01

Lab Sample ID: 880-52521-5
Matrix: Solid
Date Collected: 12/19/24 11:28
Date Received: 12/19/24 17:35
Sample Depth: 2'

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		12/20/24 14:34	12/21/24 10:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 10:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 10:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:34	12/21/24 10:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 10:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:34	12/21/24 10:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:03*	*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			12/21/24 10:03	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			01/01/25 01:58	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	49.8		mg/Kg		12/27/24 13:36	01/01/25 01:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	01/01/25 01:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	01/01/25 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:58*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		9.94		mg/Kg			12/24/24 18:18	1

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH01

Lab Sample ID: 880-52521-6
Matrix: Solid
Date Collected: 12/19/24 11:42
Date Received: 12/19/24 17:35
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:23*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/21/24 10:23	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			01/01/25 02:18	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		12/27/24 13:36	01/01/25 02:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 02:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:18*	*1*
o-Terphenyl	*103*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**261**		10.0		mg/Kg			12/24/24 18:24	1

Client Sample ID: PH01

Lab Sample ID: 880-52521-7
Matrix: Solid
Date Collected: 12/19/24 11:46
Date Received: 12/19/24 17:35
Sample Depth: 4'

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		12/20/24 14:34	12/21/24 10:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 10:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 10:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:34	12/21/24 10:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 10:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:34	12/21/24 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:44*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH01

Lab Sample ID: 880-52521-7
Matrix: Solid
Date Collected: 12/19/24 11:46
Date Received: 12/19/24 17:35
Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:44*	*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			12/21/24 10:44	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			01/01/25 02:38	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		12/27/24 13:36	01/01/25 02:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 02:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*96*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:38*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**106**		9.92	mg/Kg			12/24/24 18:30	1

Client Sample ID: PH02

Lab Sample ID: 880-52521-8
Matrix: Solid
Date Collected: 12/19/24 12:00
Date Received: 12/19/24 17:35
Sample Depth: 1'

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		12/20/24 14:34	12/21/24 11:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:04*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/21/24 11:04	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			01/01/25 02:59	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH02

Lab Sample ID: 880-52521-8
Matrix: Solid
Date Collected: 12/19/24 12:00
Date Received: 12/19/24 17:35
Sample Depth: 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		12/27/24 13:36	01/01/25 02:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 02:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:59*	*1*
o-Terphenyl	*100*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**272**	**F1**	10.0		mg/Kg			12/23/24 13:23	1

Client Sample ID: PH02

Lab Sample ID: 880-52521-9
Matrix: Solid
Date Collected: 12/19/24 12:05
Date Received: 12/19/24 17:35
Sample Depth: 2'

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		12/20/24 14:34	12/21/24 11:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 11:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 11:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 11:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 11:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:25*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:25*	*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			12/21/24 11:25	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			01/01/25 03:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 03:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 03:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*12/27/24 13:36*	*01/01/25 03:20*	*1*
o-Terphenyl	*111*		*70 - 130*	*12/27/24 13:36*	*01/01/25 03:20*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH02

Lab Sample ID: 880-52521-9
Matrix: Solid
Date Collected: 12/19/24 12:05
Date Received: 12/19/24 17:35
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		9.96		mg/Kg			12/23/24 13:44	1

Client Sample ID: PH02

Lab Sample ID: 880-52521-10
Matrix: Solid
Date Collected: 12/19/24 12:10
Date Received: 12/19/24 17:35
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:34	12/21/24 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:46*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:46*	*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			12/21/24 11:46	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			01/01/25 03:40	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		12/27/24 13:36	01/01/25 03:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 03:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*12/27/24 13:36*	*01/01/25 03:40*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/27/24 13:36*	*01/01/25 03:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.8		9.98		mg/Kg			12/23/24 13:51	1

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03

Lab Sample ID: 880-52521-11
Matrix: Solid
Date Collected: 12/19/24 12:28
Date Received: 12/19/24 17:35
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:09*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/21/24 13:09	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			01/01/25 04:00	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	49.8		mg/Kg		12/27/24 13:36	01/01/25 04:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	01/01/25 04:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	01/01/25 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*12/27/24 13:36*	*01/01/25 04:00*	*1*
o-Terphenyl	*100*		*70 - 130*	*12/27/24 13:36*	*01/01/25 04:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		9.90		mg/Kg			12/23/24 13:57	1

Client Sample ID: PH03

Lab Sample ID: 880-52521-12
Matrix: Solid
Date Collected: 12/19/24 12:32
Date Received: 12/19/24 17:35
Sample Depth: 2'

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		12/20/24 14:34	12/21/24 13:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 13:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 13:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 14:34	12/21/24 13:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 13:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 14:34	12/21/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:30*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03

Lab Sample ID: 880-52521-12
Matrix: Solid
Date Collected: 12/19/24 12:32
Date Received: 12/19/24 17:35
Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/21/24 13:30	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			01/01/25 04:21	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		12/27/24 13:36	01/01/25 04:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 04:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*94*		*70 - 130*	*12/27/24 13:36*	*01/01/25 04:21*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/27/24 13:36*	*01/01/25 04:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**		9.94	mg/Kg			12/23/24 14:05	1

Client Sample ID: PH03

Lab Sample ID: 880-52521-13
Matrix: Solid
Date Collected: 12/19/24 12:36
Date Received: 12/19/24 17:35
Sample Depth: 3'

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		12/20/24 14:34	12/21/24 13:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:51*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:51*	*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			12/21/24 13:51	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			12/31/24 12:05	1

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Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03

Date Collected: 12/19/24 12:36
Date Received: 12/19/24 17:35
Sample Depth: 3'

Lab Sample ID: 880-52521-13

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	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 12:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/27/24 13:39	12/31/24 12:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*12/27/24 13:39*	*12/31/24 12:05*	*1*
o-Terphenyl	*173*	*S1+*	*70 - 130*	*12/27/24 13:39*	*12/31/24 12:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		10.1		mg/Kg			12/23/24 14:28	1

Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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)
880-52521-1	SS01	92	87
880-52521-1 MS	SS01	88	100
880-52521-1 MSD	SS01	88	102
880-52521-2	SS02	79	92
880-52521-3	SS03	79	93
880-52521-4	SS04	87	91
880-52521-5	PH01	87	94
880-52521-6	PH01	86	94
880-52521-7	PH01	82	90
880-52521-8	PH02	87	96
880-52521-9	PH02	89	93
880-52521-10	PH02	90	90
880-52521-11	PH03	87	95
880-52521-12	PH03	89	94
880-52521-13	PH03	87	95
LCS 880-98490/1-A	Lab Control Sample	109	118
LCSD 880-98490/2-A	Lab Control Sample Dup	117	107
MB 880-98440/5-A	Method Blank	78	94
MB 880-98490/5-A	Method Blank	81	91

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)
880-52521-1	SS01	94	105
880-52521-2	SS02	102	112
880-52521-3	SS03	109	118
880-52521-4	SS04	97	107
880-52521-5	PH01	98	107
880-52521-6	PH01	97	103
880-52521-7	PH01	96	104
880-52521-8	PH02	91	100
880-52521-9	PH02	100	111
880-52521-10	PH02	95	104
880-52521-11	PH03	92	100
880-52521-12	PH03	94	105
880-52521-13	PH03	161 S1+	173 S1+
880-52521-13 MS	PH03	151 S1+	151 S1+
880-52521-13 MSD	PH03	160 S1+	155 S1+
LCS 880-98956/2-A	Lab Control Sample	97	100
LCS 880-98957/2-A	Lab Control Sample	149 S1+	138 S1+
LCSD 880-98956/3-A	Lab Control Sample Dup	104	107
LCSD 880-98957/3-A	Lab Control Sample Dup	138 S1+	132 S1+
MB 880-98956/1-A	Method Blank	115	130

Surrogate Summary

Client: Ensolum Job ID: 880-52521-1
Project/Site: Atticus State Com #521 SDG: Eddy County

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
MB 880-98957/1-A	Method Blank	185 S1+	200 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98440/5-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98440

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*12/20/24 09:23*	*12/20/24 21:40*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 09:23*	*12/20/24 21:40*	*1*

Lab Sample ID: MB 880-98490/5-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98490

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 14:34	12/21/24 08:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:19*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:19*	*1*

Lab Sample ID: LCS 880-98490/1-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98490

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1160		mg/Kg		116	70 - 130		
Toluene			0.100	0.1140		mg/Kg		114	70 - 130		
Ethylbenzene			0.100	0.1187		mg/Kg		119	70 - 130		
m-Xylene & p-Xylene			0.200	0.2351		mg/Kg		118	70 - 130		
o-Xylene			0.100	0.1149		mg/Kg		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-98490/2-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98490

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1195		mg/Kg		120	70 - 130	3	35

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-98490/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98490**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1153		mg/Kg		115	70 - 130	1	35
Ethylbenzene			0.100	0.1280		mg/Kg		128	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2529		mg/Kg		126	70 - 130	7	35
o-Xylene			0.100	0.1237		mg/Kg		124	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-52521-1 MS — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0996	0.05584	F1	mg/Kg		56	70 - 130
Toluene	<0.00199	U F1	0.0996	0.05398	F1	mg/Kg		54	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.04661	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.09456	F1	mg/Kg		47	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.04909	F1	mg/Kg		49	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-52521-1 MSD — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.07129		mg/Kg		71	70 - 130	24	35
Toluene	<0.00199	U F1	0.101	0.06693	F1	mg/Kg		66	70 - 130	21	35
Ethylbenzene	<0.00199	U F1	0.101	0.05772	F1	mg/Kg		57	70 - 130	21	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1169	F1	mg/Kg		58	70 - 130	21	35
o-Xylene	<0.00199	U F1	0.101	0.05872	F1	mg/Kg		58	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-98956/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99130 — **Prep Batch: 98956**

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		12/27/24 13:36	12/31/24 19:49	1

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: MB 880-98956/1-A
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98956

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*12/27/24 13:36*	*12/31/24 19:49*	*1*
o-Terphenyl	*130*		*70 - 130*	*12/27/24 13:36*	*12/31/24 19:49*	*1*

Lab Sample ID: LCS 880-98956/2-A
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98956

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1073		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1076		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-98956/3-A
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98956

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	956.5		mg/Kg		96	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	981.6		mg/Kg		98	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: MB 880-98957/1-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98957

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		12/27/24 13:39	12/31/24 09:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 09:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*185*	*S1+*	*70 - 130*	*12/27/24 13:39*	*12/31/24 09:51*	*1*

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: MB 880-98957/1-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98957

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	200	S1+	70 - 130	12/27/24 13:39	12/31/24 09:51	1

Lab Sample ID: LCS 880-98957/2-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1122		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	138	S1+	70 - 130

Lab Sample ID: LCSD 880-98957/3-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1103		mg/Kg		110	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 880-52521-13 MS
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: PH03
Prep Type: Total/NA
Prep Batch: 98957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1077		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	1208		mg/Kg		119	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	151	S1+	70 - 130
o-Terphenyl	151	S1+	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: 880-52521-13 MSD
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: PH03
Prep Type: Total/NA
Prep Batch: 98957

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1174		mg/Kg		114	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	1350	F1	mg/Kg		133	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*160*	*S1+*	*70 - 130*
o-Terphenyl	*155*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98551/1-A
Matrix: Solid
Analysis Batch: 98576

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			12/24/24 15:39	1

Lab Sample ID: LCS 880-98551/2-A
Matrix: Solid
Analysis Batch: 98576

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.8		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-98551/3-A
Matrix: Solid
Analysis Batch: 98576

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	265.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-98552/1-A
Matrix: Solid
Analysis Batch: 98577

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			12/23/24 13:03	1

Lab Sample ID: LCS 880-98552/2-A
Matrix: Solid
Analysis Batch: 98577

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-98552/3-A
Matrix: Solid
Analysis Batch: 98577

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	246.7		mg/Kg		99	90 - 110	3	20

Lab Sample ID: 880-52521-8 MS
Matrix: Solid
Analysis Batch: 98577

Client Sample ID: PH02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	272	F1	251	569.8	F1	mg/Kg		119	90 - 110		

Lab Sample ID: 880-52521-8 MSD
Matrix: Solid
Analysis Batch: 98577

Client Sample ID: PH02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	272	F1	251	550.3	F1	mg/Kg		111	90 - 110	3	20

Lab Sample ID: MB 880-98896/1-A
Matrix: Solid
Analysis Batch: 98925

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			12/27/24 10:47	1

Lab Sample ID: LCS 880-98896/2-A
Matrix: Solid
Analysis Batch: 98925

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.9		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-98896/3-A
Matrix: Solid
Analysis Batch: 98925

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	255.7		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

GC VOA

Analysis Batch: 98345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8021B	98490
880-52521-2	SS02	Total/NA	Solid	8021B	98490
880-52521-3	SS03	Total/NA	Solid	8021B	98490
880-52521-4	SS04	Total/NA	Solid	8021B	98490
880-52521-5	PH01	Total/NA	Solid	8021B	98490
880-52521-6	PH01	Total/NA	Solid	8021B	98490
880-52521-7	PH01	Total/NA	Solid	8021B	98490
880-52521-8	PH02	Total/NA	Solid	8021B	98490
880-52521-9	PH02	Total/NA	Solid	8021B	98490
880-52521-10	PH02	Total/NA	Solid	8021B	98490
880-52521-11	PH03	Total/NA	Solid	8021B	98490
880-52521-12	PH03	Total/NA	Solid	8021B	98490
880-52521-13	PH03	Total/NA	Solid	8021B	98490
MB 880-98440/5-A	Method Blank	Total/NA	Solid	8021B	98440
MB 880-98490/5-A	Method Blank	Total/NA	Solid	8021B	98490
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	8021B	98490
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98490
880-52521-1 MS	SS01	Total/NA	Solid	8021B	98490
880-52521-1 MSD	SS01	Total/NA	Solid	8021B	98490

Prep Batch: 98440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98440/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	5035	
880-52521-2	SS02	Total/NA	Solid	5035	
880-52521-3	SS03	Total/NA	Solid	5035	
880-52521-4	SS04	Total/NA	Solid	5035	
880-52521-5	PH01	Total/NA	Solid	5035	
880-52521-6	PH01	Total/NA	Solid	5035	
880-52521-7	PH01	Total/NA	Solid	5035	
880-52521-8	PH02	Total/NA	Solid	5035	
880-52521-9	PH02	Total/NA	Solid	5035	
880-52521-10	PH02	Total/NA	Solid	5035	
880-52521-11	PH03	Total/NA	Solid	5035	
880-52521-12	PH03	Total/NA	Solid	5035	
880-52521-13	PH03	Total/NA	Solid	5035	
MB 880-98490/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52521-1 MS	SS01	Total/NA	Solid	5035	
880-52521-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 98751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	Total BTEX	
880-52521-2	SS02	Total/NA	Solid	Total BTEX	
880-52521-3	SS03	Total/NA	Solid	Total BTEX	
880-52521-4	SS04	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 98751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-5	PH01	Total/NA	Solid	Total BTEX	
880-52521-6	PH01	Total/NA	Solid	Total BTEX	
880-52521-7	PH01	Total/NA	Solid	Total BTEX	
880-52521-8	PH02	Total/NA	Solid	Total BTEX	
880-52521-9	PH02	Total/NA	Solid	Total BTEX	
880-52521-10	PH02	Total/NA	Solid	Total BTEX	
880-52521-11	PH03	Total/NA	Solid	Total BTEX	
880-52521-12	PH03	Total/NA	Solid	Total BTEX	
880-52521-13	PH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8015NM Prep	
880-52521-2	SS02	Total/NA	Solid	8015NM Prep	
880-52521-3	SS03	Total/NA	Solid	8015NM Prep	
880-52521-4	SS04	Total/NA	Solid	8015NM Prep	
880-52521-5	PH01	Total/NA	Solid	8015NM Prep	
880-52521-6	PH01	Total/NA	Solid	8015NM Prep	
880-52521-7	PH01	Total/NA	Solid	8015NM Prep	
880-52521-8	PH02	Total/NA	Solid	8015NM Prep	
880-52521-9	PH02	Total/NA	Solid	8015NM Prep	
880-52521-10	PH02	Total/NA	Solid	8015NM Prep	
880-52521-11	PH03	Total/NA	Solid	8015NM Prep	
880-52521-12	PH03	Total/NA	Solid	8015NM Prep	
MB 880-98956/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98956/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 98957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-13	PH03	Total/NA	Solid	8015NM Prep	
MB 880-98957/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98957/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52521-13 MS	PH03	Total/NA	Solid	8015NM Prep	
880-52521-13 MSD	PH03	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8015B NM	98956
880-52521-2	SS02	Total/NA	Solid	8015B NM	98956
880-52521-3	SS03	Total/NA	Solid	8015B NM	98956
880-52521-4	SS04	Total/NA	Solid	8015B NM	98956
880-52521-5	PH01	Total/NA	Solid	8015B NM	98956
880-52521-6	PH01	Total/NA	Solid	8015B NM	98956
880-52521-7	PH01	Total/NA	Solid	8015B NM	98956
880-52521-8	PH02	Total/NA	Solid	8015B NM	98956
880-52521-9	PH02	Total/NA	Solid	8015B NM	98956
880-52521-10	PH02	Total/NA	Solid	8015B NM	98956

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 99130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-11	PH03	Total/NA	Solid	8015B NM	98956
880-52521-12	PH03	Total/NA	Solid	8015B NM	98956
MB 880-98956/1-A	Method Blank	Total/NA	Solid	8015B NM	98956
LCS 880-98956/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98956
LCSD 880-98956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98956

Analysis Batch: 99133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-13	PH03	Total/NA	Solid	8015B NM	98957
MB 880-98957/1-A	Method Blank	Total/NA	Solid	8015B NM	98957
LCS 880-98957/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98957
LCSD 880-98957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98957
880-52521-13 MS	PH03	Total/NA	Solid	8015B NM	98957
880-52521-13 MSD	PH03	Total/NA	Solid	8015B NM	98957

Analysis Batch: 99225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8015 NM	
880-52521-2	SS02	Total/NA	Solid	8015 NM	
880-52521-3	SS03	Total/NA	Solid	8015 NM	
880-52521-4	SS04	Total/NA	Solid	8015 NM	
880-52521-5	PH01	Total/NA	Solid	8015 NM	
880-52521-6	PH01	Total/NA	Solid	8015 NM	
880-52521-7	PH01	Total/NA	Solid	8015 NM	
880-52521-8	PH02	Total/NA	Solid	8015 NM	
880-52521-9	PH02	Total/NA	Solid	8015 NM	
880-52521-10	PH02	Total/NA	Solid	8015 NM	
880-52521-11	PH03	Total/NA	Solid	8015 NM	
880-52521-12	PH03	Total/NA	Solid	8015 NM	
880-52521-13	PH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Soluble	Solid	DI Leach	
880-52521-2	SS02	Soluble	Solid	DI Leach	
880-52521-3	SS03	Soluble	Solid	DI Leach	
880-52521-5	PH01	Soluble	Solid	DI Leach	
880-52521-6	PH01	Soluble	Solid	DI Leach	
880-52521-7	PH01	Soluble	Solid	DI Leach	
MB 880-98551/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 98552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-8	PH02	Soluble	Solid	DI Leach	
880-52521-9	PH02	Soluble	Solid	DI Leach	
880-52521-10	PH02	Soluble	Solid	DI Leach	
880-52521-11	PH03	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 98552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-12	PH03	Soluble	Solid	DI Leach	
880-52521-13	PH03	Soluble	Solid	DI Leach	
MB 880-98552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52521-8 MS	PH02	Soluble	Solid	DI Leach	
880-52521-8 MSD	PH02	Soluble	Solid	DI Leach	

Analysis Batch: 98576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Soluble	Solid	300.0	98551
880-52521-2	SS02	Soluble	Solid	300.0	98551
880-52521-3	SS03	Soluble	Solid	300.0	98551
880-52521-5	PH01	Soluble	Solid	300.0	98551
880-52521-6	PH01	Soluble	Solid	300.0	98551
880-52521-7	PH01	Soluble	Solid	300.0	98551
MB 880-98551/1-A	Method Blank	Soluble	Solid	300.0	98551
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	300.0	98551
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98551

Analysis Batch: 98577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-8	PH02	Soluble	Solid	300.0	98552
880-52521-9	PH02	Soluble	Solid	300.0	98552
880-52521-10	PH02	Soluble	Solid	300.0	98552
880-52521-11	PH03	Soluble	Solid	300.0	98552
880-52521-12	PH03	Soluble	Solid	300.0	98552
880-52521-13	PH03	Soluble	Solid	300.0	98552
MB 880-98552/1-A	Method Blank	Soluble	Solid	300.0	98552
LCS 880-98552/2-A	Lab Control Sample	Soluble	Solid	300.0	98552
LCSD 880-98552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98552
880-52521-8 MS	PH02	Soluble	Solid	300.0	98552
880-52521-8 MSD	PH02	Soluble	Solid	300.0	98552

Leach Batch: 98896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-4	SS04	Soluble	Solid	DI Leach	
MB 880-98896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 98925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-4	SS04	Soluble	Solid	300.0	98896
MB 880-98896/1-A	Method Blank	Soluble	Solid	300.0	98896
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	300.0	98896
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98896

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS01
Date Collected: 12/19/24 10:40
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 08:41
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 08:41
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 00:15
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 00:15
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:01

Client Sample ID: SS02
Date Collected: 12/19/24 10:15
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 09:01
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 09:01
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 00:36
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 00:36
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:06

Client Sample ID: SS03
Date Collected: 12/19/24 10:20
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 09:21
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 09:21
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 01:17
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 01:17
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:12

Client Sample ID: SS04
Date Collected: 12/19/24 10:55
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 09:42
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 09:42

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS04
Date Collected: 12/19/24 10:55
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 01:38
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 01:38
Soluble	Leach	DI Leach			98896	CH	EET MID	12/26/24 17:34
Soluble	Analysis	300.0		5	98925	CH	EET MID	12/27/24 13:32

Client Sample ID: PH01
Date Collected: 12/19/24 11:28
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 10:03
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 10:03
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 01:58
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 01:58
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:18

Client Sample ID: PH01
Date Collected: 12/19/24 11:42
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 10:23
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 10:23
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 02:18
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 02:18
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:24

Client Sample ID: PH01
Date Collected: 12/19/24 11:46
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 10:44
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 10:44
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 02:38
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 02:38

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH01
Date Collected: 12/19/24 11:46
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:30

Client Sample ID: PH02
Date Collected: 12/19/24 12:00
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 11:04
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 11:04
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 02:59
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 02:59
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:23

Client Sample ID: PH02
Date Collected: 12/19/24 12:05
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 11:25
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 11:25
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 03:20
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 03:20
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:44

Client Sample ID: PH02
Date Collected: 12/19/24 12:10
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 11:46
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 11:46
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 03:40
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 03:40
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:51

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03
Date Collected: 12/19/24 12:28
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 13:09
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 13:09
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 04:00
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 04:00
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:57

Client Sample ID: PH03
Date Collected: 12/19/24 12:32
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 13:30
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 13:30
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 04:21
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 04:21
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 14:05

Client Sample ID: PH03
Date Collected: 12/19/24 12:36
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 13:51
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 13:51
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	12/31/24 12:05
Total/NA	Prep	8015NM Prep			98957	EL	EET MID	12/27/24 13:39
Total/NA	Analysis	8015B NM		1	99133	AJ	EET MID	12/31/24 12:05
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 14:28

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-52521-1	SS01	Solid	12/19/24 10:40	12/19/24 17:35	0.5'
880-52521-2	SS02	Solid	12/19/24 10:15	12/19/24 17:35	0.5'
880-52521-3	SS03	Solid	12/19/24 10:20	12/19/24 17:35	0.5'
880-52521-4	SS04	Solid	12/19/24 10:55	12/19/24 17:35	0.5'
880-52521-5	PH01	Solid	12/19/24 11:28	12/19/24 17:35	2'
880-52521-6	PH01	Solid	12/19/24 11:42	12/19/24 17:35	3'
880-52521-7	PH01	Solid	12/19/24 11:46	12/19/24 17:35	4'
880-52521-8	PH02	Solid	12/19/24 12:00	12/19/24 17:35	1'
880-52521-9	PH02	Solid	12/19/24 12:05	12/19/24 17:35	2'
880-52521-10	PH02	Solid	12/19/24 12:10	12/19/24 17:35	4'
880-52521-11	PH03	Solid	12/19/24 12:28	12/19/24 17:35	1'
880-52521-12	PH03	Solid	12/19/24 12:32	12/19/24 17:35	2'
880-52521-13	PH03	Solid	12/19/24 12:36	12/19/24 17:35	3'

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Chain of Custody

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

Work O

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Project Manager:	Georgiana McSwane	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	254-459-2338	Email:	gmcswane@ensolum.com / hgreen@ensolum

Work Order Comments

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

Project Name:	Atticus State Com #521	Turn Around	
Project Number:	03D2024321	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Tabitha Guadian	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D2024321		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.9
Total Containers:		Corrected Temperature:	1.0

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021	TPH 8015	Chloride 300	Sample Comments
SS01	S	12/9/24	1040	0.5'	G	1		X	X	X	
SS02	S		1015	0.5'				X	X	X	
SS03	S		1020	0.5'				X	X	X	
SS04	S		1055	0.5'				X	X	X	
PH01	S		1128	2'				X	X	X	
PH01	S		1142	3'				HOLD			
PH01	S		1146	4'				X	X	X	
PH02	S		1200	1'				X	X	X	
PH02	S		1205	2'				X	X	X	
PH02	S		1210	4'				X	X	X	

NFE 12/19/24 TKG

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/19 1735	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: 521

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Project Manager:	Georgiana McSwane	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N. Marienfeld St Ste 406	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	254-459-2338	Email:	gmcswane@ensolum.com / hgreen@ensolum

Work Order Comments

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

Project Name:	Atticus State Com #521	Turn Around	
Project Number:	03D2024321	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Tabitha Guardian	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D2024321		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021	TPH 8015	Chloride 300	Sample Comments
PH03	S	12/19/24	1228	1'	G	1		X	X	X	
PH03	S		1232	2'		1		X	X	X	
PH03	S		1236	3'		1		X	X	X	

NFE

12/19/24

TNG

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/19 1735	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-52521-1
SDG Number: Eddy County

Login Number: 52521
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Atticus State Com #521
Eddy County

JOB NUMBER

880-53645-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

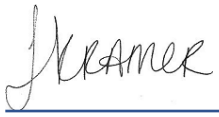
Eurofins Midland

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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Revision 1

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

Client: Ensolum
Project/Site: Atticus State Com #521

Laboratory Job ID: 880-53645-1
SDG: Eddy County

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 880-53645-1
Project: Atticus State Com #521

Job ID: 880-53645-1 Eurofins Midland

Job Narrative
880-53645-1

REVISION

The report being provided is a revision of the original report sent on 1/27/2025. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

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 1/24/2025 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C.

Receipt Exceptions
The following samples ere received and analyzed from an unpreserved bulk soil jar: SS01 (880-53645-1) and SS04 (880-53645-2).

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 880-101238 and analytical batch 880-101251 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.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101340 and analytical batch 880-101350 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SS04 (880-53645-2), (890-7605-A-10-A), (890-7605-A-10-B MS) and (890-7605-A-10-C MSD). Percent recoveries are based on the amount spiked.

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

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

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Client Sample ID: SS01

Date Collected: 01/24/25 12:20
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-1

Matrix: Solid

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		01/27/25 08:36	01/27/25 13:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 13:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 13:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/27/25 08:36	01/27/25 13:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 13:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/27/25 08:36	01/27/25 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/27/25 08:36*	*01/27/25 13:04*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/27/25 08:36*	*01/27/25 13:04*	*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			01/27/25 13:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.6**		49.8		mg/Kg			01/28/25 13:02	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	49.8		mg/Kg		01/28/25 07:52	01/28/25 13:02	1
Diesel Range Organics (Over C10-C28)	**76.6**		49.8		mg/Kg		01/28/25 07:52	01/28/25 13:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/28/25 07:52	01/28/25 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*01/28/25 07:52*	*01/28/25 13:02*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/28/25 07:52*	*01/28/25 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.2**		10.1		mg/Kg			01/27/25 12:04	1

Client Sample ID: SS04

Date Collected: 01/24/25 12:24
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/27/25 08:36	01/27/25 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/27/25 08:36*	*01/27/25 13:25*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/27/25 08:36*	*01/27/25 13:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Client Sample ID: SS04

Date Collected: 01/24/25 12:24
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/27/25 13:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**72.6**		49.6		mg/Kg			01/28/25 13:02	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	<49.6	U	49.6		mg/Kg		01/28/25 08:12	01/28/25 13:02	1
Diesel Range Organics (Over C10-C28)	**72.6**		49.6		mg/Kg		01/28/25 08:12	01/28/25 13:02	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/28/25 08:12	01/28/25 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*167*	*S1+*	*70 - 130*	*01/28/25 08:12*	*01/28/25 13:02*	*1*
o-Terphenyl	*146*	*S1+*	*70 - 130*	*01/28/25 08:12*	*01/28/25 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.1**		9.94		mg/Kg			01/27/25 12:10	1

Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-53645-1	SS01	104	98
880-53645-2	SS04	108	98
LCS 880-101248/1-A	Lab Control Sample	102	99
LCSD 880-101248/2-A	Lab Control Sample Dup	99	100
MB 880-101248/5-A	Method Blank	101	95

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-53645-1	SS01	87	79
880-53645-1 MS	SS01	80	81
880-53645-1 MSD	SS01	91	78
880-53645-2	SS04	167 S1+	146 S1+
LCS 880-101238/2-A	Lab Control Sample	87	91
LCS 880-101336/2-A	Lab Control Sample	87	90
LCS 880-101340/2-A	Lab Control Sample	122	112
LCSD 880-101238/3-A	Lab Control Sample Dup	91	94
LCSD 880-101336/3-A	Lab Control Sample Dup	87	92
LCSD 880-101340/3-A	Lab Control Sample Dup	124	114
MB 880-101238/1-A	Method Blank	105	100
MB 880-101336/1-A	Method Blank	115	107
MB 880-101340/1-A	Method Blank	164 S1+	135 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101248/5-A
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101248

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/27/25 08:36	01/27/25 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/27/25 08:36*	*01/27/25 11:21*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/27/25 08:36*	*01/27/25 11:21*	*1*

Lab Sample ID: LCS 880-101248/1-A
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101248

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08463		mg/Kg		85	70 - 130		
Toluene			0.100	0.08720		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.09055		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1707		mg/Kg		85	70 - 130		
o-Xylene			0.100	0.08683		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-101248/2-A
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08861		mg/Kg		89	70 - 130	5	35
Toluene			0.100	0.09188		mg/Kg		92	70 - 130	5	35
Ethylbenzene			0.100	0.09454		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1780		mg/Kg		89	70 - 130	4	35
o-Xylene			0.100	0.09050		mg/Kg		90	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: MB 880-101238/1-A
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101238

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		01/27/25 08:12	01/27/25 08:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/27/25 08:12	01/27/25 08:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/27/25 08:12	01/27/25 08:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*01/27/25 08:12*	*01/27/25 08:51*	*1*
o-Terphenyl	*100*		*70 - 130*	*01/27/25 08:12*	*01/27/25 08:51*	*1*

Lab Sample ID: LCS 880-101238/2-A
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101238

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	811.4		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	809.4		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-101238/3-A
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101238

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	830.0		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	838.8		mg/Kg		84	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-53645-1 MS
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 101238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	749.4		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)	103	F1	997	789.9	F1	mg/Kg		69	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: 880-53645-1 MS
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 101238

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: 880-53645-1 MSD
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 101238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	729.1		mg/Kg		73	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	103	F1	997	751.6	F1	mg/Kg		65	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: MB 880-101336/1-A
Matrix: Solid
Analysis Batch: 101348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101336

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		01/28/25 07:52	01/28/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/28/25 07:52	01/28/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/28/25 07:52	01/28/25 01:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*01/28/25 07:52*	*01/28/25 01:04*	*1*
o-Terphenyl	*107*		*70 - 130*	*01/28/25 07:52*	*01/28/25 01:04*	*1*

Lab Sample ID: LCS 880-101336/2-A
Matrix: Solid
Analysis Batch: 101348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101336

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	813.2		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	806.4		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-101336/3-A
Matrix: Solid
Analysis Batch: 101348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101336

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	785.9		mg/Kg		79	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	826.4		mg/Kg		83	70 - 130	2	20

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

Lab Sample ID: MB 880-101340/1-A
Matrix: Solid
Analysis Batch: 101350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101340

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		01/28/25 08:12	01/28/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/28/25 08:12	01/28/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/28/25 08:12	01/28/25 01:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*01/28/25 08:12*	*01/28/25 01:04*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*01/28/25 08:12*	*01/28/25 01:04*	*1*

Lab Sample ID: LCS 880-101340/2-A
Matrix: Solid
Analysis Batch: 101350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101340

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1076		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1063		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-101340/3-A
Matrix: Solid
Analysis Batch: 101350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101340

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1111		mg/Kg		111	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1070		mg/Kg		107	70 - 130	1	20

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-101340/3-A
Matrix: Solid
Analysis Batch: 101350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101340

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101235/1-A
Matrix: Solid
Analysis Batch: 101246

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			01/27/25 09:12	1

Lab Sample ID: LCS 880-101235/2-A
Matrix: Solid
Analysis Batch: 101246

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.2		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-101235/3-A
Matrix: Solid
Analysis Batch: 101246

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	237.5		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

GC VOA

Analysis Batch: 101242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8021B	101248
880-53645-2	SS04	Total/NA	Solid	8021B	101248
MB 880-101248/5-A	Method Blank	Total/NA	Solid	8021B	101248
LCS 880-101248/1-A	Lab Control Sample	Total/NA	Solid	8021B	101248
LCSD 880-101248/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101248

Prep Batch: 101248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	5035	
880-53645-2	SS04	Total/NA	Solid	5035	
MB 880-101248/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-101248/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-101248/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 101320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	Total BTEX	
880-53645-2	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101238/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101238/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101238/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53645-1 MS	SS01	Total/NA	Solid	8015NM Prep	
880-53645-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101238/1-A	Method Blank	Total/NA	Solid	8015B NM	101238
LCS 880-101238/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101238
LCSD 880-101238/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101238
880-53645-1 MS	SS01	Total/NA	Solid	8015B NM	101238
880-53645-1 MSD	SS01	Total/NA	Solid	8015B NM	101238

Analysis Batch: 101306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8015 NM	
880-53645-2	SS04	Total/NA	Solid	8015 NM	

Prep Batch: 101336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-101336/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101336/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 101340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-2	SS04	Total/NA	Solid	8015NM Prep	
MB 880-101340/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101340/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101340/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8015B NM	101336
MB 880-101336/1-A	Method Blank	Total/NA	Solid	8015B NM	101336
LCS 880-101336/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101336
LCSD 880-101336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101336

Analysis Batch: 101350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-2	SS04	Total/NA	Solid	8015B NM	101340
MB 880-101340/1-A	Method Blank	Total/NA	Solid	8015B NM	101340
LCS 880-101340/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101340
LCSD 880-101340/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101340

HPLC/IC

Leach Batch: 101235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Soluble	Solid	DI Leach	
880-53645-2	SS04	Soluble	Solid	DI Leach	
MB 880-101235/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101235/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101235/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 101246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Soluble	Solid	300.0	101235
880-53645-2	SS04	Soluble	Solid	300.0	101235
MB 880-101235/1-A	Method Blank	Soluble	Solid	300.0	101235
LCS 880-101235/2-A	Lab Control Sample	Soluble	Solid	300.0	101235
LCSD 880-101235/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101235

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Client Sample ID: SS01
Date Collected: 01/24/25 12:20
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101248	AA	EET MID	01/27/25 08:36
Total/NA	Analysis	8021B		1	101242	MNR	EET MID	01/27/25 13:04
Total/NA	Analysis	Total BTEX		1	101320	SM	EET MID	01/27/25 13:04
Total/NA	Analysis	8015 NM		1	101306	SM	EET MID	01/28/25 13:02
Total/NA	Prep	8015NM Prep			101336	EL	EET MID	01/28/25 07:52
Total/NA	Analysis	8015B NM		1	101348	TKC	EET MID	01/28/25 13:02
Soluble	Leach	DI Leach			101235	SA	EET MID	01/27/25 07:54
Soluble	Analysis	300.0		1	101246	CH	EET MID	01/27/25 12:04

Client Sample ID: SS04
Date Collected: 01/24/25 12:24
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101248	AA	EET MID	01/27/25 08:36
Total/NA	Analysis	8021B		1	101242	MNR	EET MID	01/27/25 13:25
Total/NA	Analysis	Total BTEX		1	101320	SM	EET MID	01/27/25 13:25
Total/NA	Analysis	8015 NM		1	101306	SM	EET MID	01/28/25 13:02
Total/NA	Prep	8015NM Prep			101340	EL	EET MID	01/28/25 08:12
Total/NA	Analysis	8015B NM		1	101350	TKC	EET MID	01/28/25 13:02
Soluble	Leach	DI Leach			101235	SA	EET MID	01/27/25 07:54
Soluble	Analysis	300.0		1	101246	CH	EET MID	01/27/25 12:10

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53645-1	SS01	Solid	01/24/25 12:20	01/24/25 16:45
880-53645-2	SS04	Solid	01/24/25 12:24	01/24/25 16:45

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Chain of Custody

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

Work Or 880-53645 Chain of Custody

www.xenco.com Page 1 of 1

Dan Moir

Project Manager:	Hadlie Green/Georgiana McSwain	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld st Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com/gmcswain@ensolum.

Work Order Comments

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

Project Name:	Atticus State Com #521	Turn Around	☐ Routine ☑ Rush
Project Number:	03D2024321	Due Date:	24hr
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Tabitha Guadian		
PO #:	03D2024321		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR6
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	=
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.8
Total Containers:		Corrected Temperature:	2.9

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	TPH 8015	BTEX 8021	Chlorides 300	Sample Comments
SS01	S	11/24/25	1220	0.5	G	1		X	X	X	
SS04	S	11/24/25	1224	0.5	G	1		X	X	X	

NFE 11/24/25 TNG

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11/24/25 1645	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-53645-1
SDG Number: Eddy County

Login Number: 53645
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 6/13/2025 10:33:47 AM

JOB DESCRIPTION

Atticus State Com 521H
Lea County

JOB NUMBER

880-59187-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

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

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

Authorization

Generated
6/13/2025 10:33:47 AM

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

Client: Ensolum
Project/Site: Atticus State Com 521H

Laboratory Job ID: 880-59187-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 880-59187-1
Project/Site: Atticus State Com 521H SDG: Lea County

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
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 Job ID: 880-59187-1
Project: Atticus State Com 521H

Job ID: 880-59187-1 Eurofins Midland

Job Narrative
880-59187-1

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 6/11/2025 8:03 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 2.5°C.

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

Diesel Range Organics
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 880-112056 and analytical batch 880-112064 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.

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS01

Lab Sample ID: 880-59187-1
Matrix: Solid
Date Collected: 06/10/25 12:22
Date Received: 06/11/25 08:03
Sample Depth: 2'

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		06/11/25 11:54	06/11/25 14:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 14:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 14:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/11/25 11:54	06/11/25 14:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 14:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/11/25 11:54	06/11/25 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/11/25 11:54*	*06/11/25 14:00*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/11/25 11:54*	*06/11/25 14:00*	*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			06/11/25 14:00	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			06/12/25 20:50	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	49.8		mg/Kg		06/11/25 12:30	06/12/25 20:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/11/25 12:30	06/12/25 20:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/11/25 12:30	06/12/25 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/11/25 12:30*	*06/12/25 20:50*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/11/25 12:30*	*06/12/25 20:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**	**F1**	10.0		mg/Kg			06/12/25 09:38	1

Client Sample ID: FS02

Lab Sample ID: 880-59187-2
Matrix: Solid
Date Collected: 06/10/25 12:24
Date Received: 06/11/25 08:03
Sample Depth: 2'

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		06/11/25 11:54	06/11/25 14:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/11/25 11:54	06/11/25 14:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/11/25 11:54	06/11/25 14:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/11/25 11:54	06/11/25 14:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/11/25 11:54	06/11/25 14:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/11/25 11:54	06/11/25 14:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/11/25 11:54*	*06/11/25 14:20*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS02

Lab Sample ID: 880-59187-2
Matrix: Solid
Date Collected: 06/10/25 12:24
Date Received: 06/11/25 08:03
Sample Depth: 2'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/11/25 11:54*	*06/11/25 14:20*	*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			06/11/25 14:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			06/12/25 21:06	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	<50.2	U	50.2	mg/Kg		06/11/25 12:30	06/12/25 21:06	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		06/11/25 12:30	06/12/25 21:06	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		06/11/25 12:30	06/12/25 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/11/25 12:30*	*06/12/25 21:06*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/11/25 12:30*	*06/12/25 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**168**		10.1	mg/Kg			06/12/25 09:59	1

Client Sample ID: FS03

Lab Sample ID: 880-59187-3
Matrix: Solid
Date Collected: 06/10/25 12:26
Date Received: 06/11/25 08:03
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/11/25 11:54	06/11/25 14:41	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/11/25 11:54	06/11/25 14:41	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/11/25 11:54	06/11/25 14:41	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/11/25 11:54	06/11/25 14:41	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/11/25 11:54	06/11/25 14:41	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/11/25 11:54	06/11/25 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/11/25 11:54*	*06/11/25 14:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/11/25 11:54*	*06/11/25 14:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/11/25 14:41	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			06/12/25 21:23	1

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS03

Lab Sample ID: 880-59187-3
Matrix: Solid
Date Collected: 06/10/25 12:26
Date Received: 06/11/25 08:03
Sample Depth: 2'

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		06/11/25 12:30	06/12/25 21:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/11/25 12:30	06/12/25 21:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/11/25 12:30	06/12/25 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/11/25 12:30*	*06/12/25 21:23*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/11/25 12:30*	*06/12/25 21:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**167**		9.94		mg/Kg			06/12/25 10:06	1

Client Sample ID: FS04

Lab Sample ID: 880-59187-4
Matrix: Solid
Date Collected: 06/10/25 12:28
Date Received: 06/11/25 08:03
Sample Depth: 2'

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		06/11/25 11:54	06/11/25 15:01	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/11/25 11:54	06/11/25 15:01	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/11/25 11:54	06/11/25 15:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/11/25 11:54	06/11/25 15:01	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/11/25 11:54	06/11/25 15:01	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/11/25 11:54	06/11/25 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/11/25 11:54*	*06/11/25 15:01*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/11/25 11:54*	*06/11/25 15:01*	*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			06/11/25 15:01	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			06/12/25 21:39	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	<50.1	U	50.1		mg/Kg		06/11/25 12:30	06/12/25 21:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/11/25 12:30	06/12/25 21:39	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/11/25 12:30	06/12/25 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/11/25 12:30*	*06/12/25 21:39*	*1*
o-Terphenyl	*92*		*70 - 130*	*06/11/25 12:30*	*06/12/25 21:39*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS04

Lab Sample ID: 880-59187-4
Matrix: Solid
Date Collected: 06/10/25 12:28
Date Received: 06/11/25 08:03
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		9.90		mg/Kg			06/12/25 10:13	1

Client Sample ID: FS05

Lab Sample ID: 880-59187-5
Matrix: Solid
Date Collected: 06/10/25 12:30
Date Received: 06/11/25 08:03
Sample Depth: 2'

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		06/11/25 11:54	06/11/25 15:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/11/25 11:54	06/11/25 15:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/11/25 11:54	06/11/25 15:22	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/11/25 11:54	06/11/25 15:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/11/25 11:54	06/11/25 15:22	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/11/25 11:54	06/11/25 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/11/25 11:54*	*06/11/25 15:22*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/11/25 11:54*	*06/11/25 15:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/11/25 15:22	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			06/12/25 21:57	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		06/11/25 12:30	06/12/25 21:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/11/25 12:30	06/12/25 21:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/11/25 12:30	06/12/25 21:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*06/11/25 12:30*	*06/12/25 21:57*	*1*
o-Terphenyl	*91*		*70 - 130*	*06/11/25 12:30*	*06/12/25 21:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	162		10.0		mg/Kg			06/12/25 10:20	1

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS06

Lab Sample ID: 880-59187-6
Matrix: Solid
Date Collected: 06/10/25 12:32
Date Received: 06/11/25 08:03
Sample Depth: 2'

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		06/11/25 11:54	06/11/25 15:42	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/11/25 11:54	06/11/25 15:42	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/11/25 11:54	06/11/25 15:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/11/25 11:54	06/11/25 15:42	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/11/25 11:54	06/11/25 15:42	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/11/25 11:54	06/11/25 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/11/25 11:54*	*06/11/25 15:42*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/11/25 11:54*	*06/11/25 15:42*	*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			06/11/25 15:42	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			06/12/25 13:13	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		06/11/25 16:02	06/12/25 13:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/11/25 16:02	06/12/25 13:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/11/25 16:02	06/12/25 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*06/11/25 16:02*	*06/12/25 13:13*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/11/25 16:02*	*06/12/25 13:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**149**		10.0		mg/Kg			06/12/25 10:41	1

Client Sample ID: FS07

Lab Sample ID: 880-59187-7
Matrix: Solid
Date Collected: 06/10/25 12:34
Date Received: 06/11/25 08:03
Sample Depth: 2'

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		06/11/25 11:54	06/11/25 16:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/11/25 11:54	06/11/25 16:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/11/25 11:54	06/11/25 16:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/11/25 11:54	06/11/25 16:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/11/25 11:54	06/11/25 16:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/11/25 11:54	06/11/25 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/11/25 11:54*	*06/11/25 16:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS07

Lab Sample ID: 880-59187-7
Matrix: Solid
Date Collected: 06/10/25 12:34
Date Received: 06/11/25 08:03
Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/11/25 11:54*	*06/11/25 16:02*	*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			06/11/25 16:02	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			06/12/25 13:29	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		06/11/25 16:02	06/12/25 13:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/11/25 16:02	06/12/25 13:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/11/25 16:02	06/12/25 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*87*		*70 - 130*	*06/11/25 16:02*	*06/12/25 13:29*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/11/25 16:02*	*06/12/25 13:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**204**		10.1	mg/Kg			06/12/25 10:48	1

Client Sample ID: FS08

Lab Sample ID: 880-59187-8
Matrix: Solid
Date Collected: 06/10/25 12:36
Date Received: 06/11/25 08:03
Sample Depth: 2'

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		06/11/25 11:54	06/11/25 16:23	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/11/25 11:54	06/11/25 16:23	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/11/25 11:54	06/11/25 16:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/11/25 11:54	06/11/25 16:23	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/11/25 11:54	06/11/25 16:23	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/11/25 11:54	06/11/25 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/11/25 11:54*	*06/11/25 16:23*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/11/25 11:54*	*06/11/25 16:23*	*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			06/11/25 16:23	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			06/12/25 12:57	1

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Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS08

Lab Sample ID: 880-59187-8
Matrix: Solid
Date Collected: 06/10/25 12:36
Date Received: 06/11/25 08:03
Sample Depth: 2'

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		06/12/25 08:08	06/12/25 12:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/12/25 08:08	06/12/25 12:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/12/25 08:08	06/12/25 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:57*	*1*
o-Terphenyl	*90*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.2**		9.94		mg/Kg			06/12/25 10:55	1

Client Sample ID: SW01

Lab Sample ID: 880-59187-9
Matrix: Solid
Date Collected: 06/10/25 12:38
Date Received: 06/11/25 08:03
Sample Depth: 0-2'

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		06/11/25 11:54	06/11/25 16:43	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/11/25 11:54	06/11/25 16:43	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/11/25 11:54	06/11/25 16:43	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/11/25 11:54	06/11/25 16:43	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/11/25 11:54	06/11/25 16:43	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/11/25 11:54	06/11/25 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/11/25 11:54*	*06/11/25 16:43*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/11/25 11:54*	*06/11/25 16:43*	*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			06/11/25 16:43	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			06/12/25 13:13	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		06/12/25 08:08	06/12/25 13:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 13:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/12/25 08:08*	*06/12/25 13:13*	*1*
o-Terphenyl	*87*		*70 - 130*	*06/12/25 08:08*	*06/12/25 13:13*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: SW01

Lab Sample ID: 880-59187-9
Matrix: Solid
Date Collected: 06/10/25 12:38
Date Received: 06/11/25 08:03
Sample Depth: 0-2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		9.92		mg/Kg			06/12/25 11:02	1

Client Sample ID: SW02

Lab Sample ID: 880-59187-10
Matrix: Solid
Date Collected: 06/10/25 12:40
Date Received: 06/11/25 08:03
Sample Depth: 0-2'

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		06/11/25 11:54	06/11/25 17:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 17:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 17:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/11/25 11:54	06/11/25 17:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 17:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/11/25 11:54	06/11/25 17:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/11/25 11:54*	*06/11/25 17:04*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/11/25 11:54*	*06/11/25 17:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/11/25 17:04	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			06/12/25 13:29	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	49.8		mg/Kg		06/12/25 08:08	06/12/25 13:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/12/25 08:08	06/12/25 13:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/12/25 08:08	06/12/25 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*06/12/25 08:08*	*06/12/25 13:29*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/12/25 08:08*	*06/12/25 13:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206		9.96		mg/Kg			06/12/25 11:09	1

Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
880-59187-1	FS01	106	101
880-59187-1 MS	FS01	91	105
880-59187-1 MSD	FS01	99	102
880-59187-2	FS02	101	102
880-59187-3	FS03	94	100
880-59187-4	FS04	96	99
880-59187-5	FS05	97	98
880-59187-6	FS06	98	99
880-59187-7	FS07	102	100
880-59187-8	FS08	97	101
880-59187-9	SW01	102	96
880-59187-10	SW02	98	99
LCS 880-111994/1-A	Lab Control Sample	106	99
LCSD 880-111994/2-A	Lab Control Sample Dup	98	102
MB 880-111994/5-A	Method Blank	90	93

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**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
880-59187-1	FS01	97	92
880-59187-2	FS02	97	92
880-59187-3	FS03	96	90
880-59187-4	FS04	98	92
880-59187-5	FS05	96	91
880-59187-6	FS06	98	102
880-59187-7	FS07	87	89
880-59187-8	FS08	95	90
880-59187-9	SW01	91	87
880-59187-10	SW02	105	99
LCS 880-112007/2-A	Lab Control Sample	94	83
LCS 880-112031/2-A	Lab Control Sample	87	78
LCS 880-112058/2-A	Lab Control Sample	76	80
LCSD 880-112007/3-A	Lab Control Sample Dup	77	81
LCSD 880-112031/3-A	Lab Control Sample Dup	87	79
LCSD 880-112058/3-A	Lab Control Sample Dup	76	82
MB 880-112007/1-A	Method Blank	82	78
MB 880-112031/1-A	Method Blank	72	75
MB 880-112058/1-A	Method Blank	73	73

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111994/5-A
Matrix: Solid
Analysis Batch: 111938

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111994

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 13:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 13:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 13:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/11/25 11:54	06/11/25 13:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/11/25 11:54	06/11/25 13:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/11/25 11:54	06/11/25 13:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/11/25 11:54*	*06/11/25 13:38*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*06/11/25 11:54*	*06/11/25 13:38*	*1*

Lab Sample ID: LCS 880-111994/1-A
Matrix: Solid
Analysis Batch: 111938

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111994

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09454		mg/Kg		95	70 - 130		
Toluene			0.100	0.08200		mg/Kg		82	70 - 130		
Ethylbenzene			0.100	0.08870		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1786		mg/Kg		89	70 - 130		
o-Xylene			0.100	0.09162		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-111994/2-A
Matrix: Solid
Analysis Batch: 111938

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111994

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1014		mg/Kg		101	70 - 130	7	35
Toluene			0.100	0.08573		mg/Kg		86	70 - 130	4	35
Ethylbenzene			0.100	0.09090		mg/Kg		91	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1836		mg/Kg		92	70 - 130	3	35
o-Xylene			0.100	0.09285		mg/Kg		93	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 880-59187-1 MS
Matrix: Solid
Analysis Batch: 111938

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1110		mg/Kg		111	70 - 130		
Toluene	<0.00200	U	0.100	0.08961		mg/Kg		90	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

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

Lab Sample ID: 880-59187-1 MS
Matrix: Solid
Analysis Batch: 111938

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 111994

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09229		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1831		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.100	0.09151		mg/Kg		92	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-59187-1 MSD
Matrix: Solid
Analysis Batch: 111938

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 111994

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	0.1087		mg/Kg		109	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09239		mg/Kg		92	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09716		mg/Kg		97	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1957		mg/Kg		98	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.09769		mg/Kg		98	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-112007/1-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112007

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		06/11/25 12:30	06/12/25 15:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/11/25 12:30	06/12/25 15:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/11/25 12:30	06/12/25 15:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*06/11/25 12:30*	*06/12/25 15:10*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/11/25 12:30*	*06/12/25 15:10*	*1*

Lab Sample ID: LCS 880-112007/2-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112007

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	870.4		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	877.9		mg/Kg		88	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

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

Lab Sample ID: LCS 880-112007/2-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112007

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-112007/3-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112007

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	850.2		mg/Kg		85	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	900.0		mg/Kg		90	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	81		70 - 130

Lab Sample ID: MB 880-112031/1-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112031

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		06/11/25 16:02	06/12/25 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 03:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 03:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	06/11/25 16:02	06/12/25 03:45	1
o-Terphenyl	75		70 - 130	06/11/25 16:02	06/12/25 03:45	1

Lab Sample ID: LCS 880-112031/2-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	806.5		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)			1000	799.0		mg/Kg		80	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	78		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-112031/3-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112031

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	818.9		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	812.4		mg/Kg		81	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*79*		*70 - 130*

Lab Sample ID: MB 880-112058/1-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112058

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		06/12/25 08:08	06/12/25 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 03:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 03:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/12/25 08:08*	*06/12/25 03:45*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/12/25 08:08*	*06/12/25 03:45*	*1*

Lab Sample ID: LCS 880-112058/2-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112058

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	854.3		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	886.0		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: LCSD 880-112058/3-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112058

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	856.4		mg/Kg		86	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	898.1		mg/Kg		90	70 - 130	1	20

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-112058/3-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112058

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	82		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112056/1-A
Matrix: Solid
Analysis Batch: 112064

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			06/12/25 09:16	1

Lab Sample ID: LCS 880-112056/2-A
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	235.1		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-112056/3-A
Matrix: Solid
Analysis Batch: 112064

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	236.2		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-59187-1 MS
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	170	F1	251	449.4	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 880-59187-1 MSD
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: FS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	170	F1	251	448.5	F1	mg/Kg		111	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

GC VOA

Analysis Batch: 111938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-1	FS01	Total/NA	Solid	8021B	111994
880-59187-2	FS02	Total/NA	Solid	8021B	111994
880-59187-3	FS03	Total/NA	Solid	8021B	111994
880-59187-4	FS04	Total/NA	Solid	8021B	111994
880-59187-5	FS05	Total/NA	Solid	8021B	111994
880-59187-6	FS06	Total/NA	Solid	8021B	111994
880-59187-7	FS07	Total/NA	Solid	8021B	111994
880-59187-8	FS08	Total/NA	Solid	8021B	111994
880-59187-9	SW01	Total/NA	Solid	8021B	111994
880-59187-10	SW02	Total/NA	Solid	8021B	111994
MB 880-111994/5-A	Method Blank	Total/NA	Solid	8021B	111994
LCS 880-111994/1-A	Lab Control Sample	Total/NA	Solid	8021B	111994
LCSD 880-111994/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111994
880-59187-1 MS	FS01	Total/NA	Solid	8021B	111994
880-59187-1 MSD	FS01	Total/NA	Solid	8021B	111994

Prep Batch: 111994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-1	FS01	Total/NA	Solid	5035	
880-59187-2	FS02	Total/NA	Solid	5035	
880-59187-3	FS03	Total/NA	Solid	5035	
880-59187-4	FS04	Total/NA	Solid	5035	
880-59187-5	FS05	Total/NA	Solid	5035	
880-59187-6	FS06	Total/NA	Solid	5035	
880-59187-7	FS07	Total/NA	Solid	5035	
880-59187-8	FS08	Total/NA	Solid	5035	
880-59187-9	SW01	Total/NA	Solid	5035	
880-59187-10	SW02	Total/NA	Solid	5035	
MB 880-111994/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111994/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111994/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-59187-1 MS	FS01	Total/NA	Solid	5035	
880-59187-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 112126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-1	FS01	Total/NA	Solid	Total BTEX	
880-59187-2	FS02	Total/NA	Solid	Total BTEX	
880-59187-3	FS03	Total/NA	Solid	Total BTEX	
880-59187-4	FS04	Total/NA	Solid	Total BTEX	
880-59187-5	FS05	Total/NA	Solid	Total BTEX	
880-59187-6	FS06	Total/NA	Solid	Total BTEX	
880-59187-7	FS07	Total/NA	Solid	Total BTEX	
880-59187-8	FS08	Total/NA	Solid	Total BTEX	
880-59187-9	SW01	Total/NA	Solid	Total BTEX	
880-59187-10	SW02	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

GC Semi VOA

Prep Batch: 112007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-1	FS01	Total/NA	Solid	8015NM Prep	
880-59187-2	FS02	Total/NA	Solid	8015NM Prep	
880-59187-3	FS03	Total/NA	Solid	8015NM Prep	
880-59187-4	FS04	Total/NA	Solid	8015NM Prep	
880-59187-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-112007/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112007/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112007/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 112031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-6	FS06	Total/NA	Solid	8015NM Prep	
880-59187-7	FS07	Total/NA	Solid	8015NM Prep	
MB 880-112031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 112058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-8	FS08	Total/NA	Solid	8015NM Prep	
880-59187-9	SW01	Total/NA	Solid	8015NM Prep	
880-59187-10	SW02	Total/NA	Solid	8015NM Prep	
MB 880-112058/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112058/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112058/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 112078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-6	FS06	Total/NA	Solid	8015B NM	112031
880-59187-7	FS07	Total/NA	Solid	8015B NM	112031
MB 880-112031/1-A	Method Blank	Total/NA	Solid	8015B NM	112031
LCS 880-112031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112031
LCSD 880-112031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112031

Analysis Batch: 112080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-1	FS01	Total/NA	Solid	8015B NM	112007
880-59187-2	FS02	Total/NA	Solid	8015B NM	112007
880-59187-3	FS03	Total/NA	Solid	8015B NM	112007
880-59187-4	FS04	Total/NA	Solid	8015B NM	112007
880-59187-5	FS05	Total/NA	Solid	8015B NM	112007
880-59187-8	FS08	Total/NA	Solid	8015B NM	112058
880-59187-9	SW01	Total/NA	Solid	8015B NM	112058
880-59187-10	SW02	Total/NA	Solid	8015B NM	112058
MB 880-112007/1-A	Method Blank	Total/NA	Solid	8015B NM	112007
MB 880-112058/1-A	Method Blank	Total/NA	Solid	8015B NM	112058
LCS 880-112007/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112007
LCS 880-112058/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112058
LCSD 880-112007/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112007
LCSD 880-112058/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112058

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

GC Semi VOA

Analysis Batch: 112130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-1	FS01	Total/NA	Solid	8015 NM	
880-59187-2	FS02	Total/NA	Solid	8015 NM	
880-59187-3	FS03	Total/NA	Solid	8015 NM	
880-59187-4	FS04	Total/NA	Solid	8015 NM	
880-59187-5	FS05	Total/NA	Solid	8015 NM	
880-59187-6	FS06	Total/NA	Solid	8015 NM	
880-59187-7	FS07	Total/NA	Solid	8015 NM	
880-59187-8	FS08	Total/NA	Solid	8015 NM	
880-59187-9	SW01	Total/NA	Solid	8015 NM	
880-59187-10	SW02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 112056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-1	FS01	Soluble	Solid	DI Leach	
880-59187-2	FS02	Soluble	Solid	DI Leach	
880-59187-3	FS03	Soluble	Solid	DI Leach	
880-59187-4	FS04	Soluble	Solid	DI Leach	
880-59187-5	FS05	Soluble	Solid	DI Leach	
880-59187-6	FS06	Soluble	Solid	DI Leach	
880-59187-7	FS07	Soluble	Solid	DI Leach	
880-59187-8	FS08	Soluble	Solid	DI Leach	
880-59187-9	SW01	Soluble	Solid	DI Leach	
880-59187-10	SW02	Soluble	Solid	DI Leach	
MB 880-112056/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-112056/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-112056/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59187-1 MS	FS01	Soluble	Solid	DI Leach	
880-59187-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 112064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59187-1	FS01	Soluble	Solid	300.0	112056
880-59187-2	FS02	Soluble	Solid	300.0	112056
880-59187-3	FS03	Soluble	Solid	300.0	112056
880-59187-4	FS04	Soluble	Solid	300.0	112056
880-59187-5	FS05	Soluble	Solid	300.0	112056
880-59187-6	FS06	Soluble	Solid	300.0	112056
880-59187-7	FS07	Soluble	Solid	300.0	112056
880-59187-8	FS08	Soluble	Solid	300.0	112056
880-59187-9	SW01	Soluble	Solid	300.0	112056
880-59187-10	SW02	Soluble	Solid	300.0	112056
MB 880-112056/1-A	Method Blank	Soluble	Solid	300.0	112056
LCS 880-112056/2-A	Lab Control Sample	Soluble	Solid	300.0	112056
LCSD 880-112056/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	112056
880-59187-1 MS	FS01	Soluble	Solid	300.0	112056
880-59187-1 MSD	FS01	Soluble	Solid	300.0	112056

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS01

Lab Sample ID: 880-59187-1
Matrix: Solid
Date Collected: 06/10/25 12:22
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 14:00
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 14:00
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 20:50
Total/NA	Prep	8015NM Prep			112007	FC	EET MID	06/11/25 12:30
Total/NA	Analysis	8015B NM		1	112080	TKC	EET MID	06/12/25 20:50
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 09:38

Client Sample ID: FS02

Lab Sample ID: 880-59187-2
Matrix: Solid
Date Collected: 06/10/25 12:24
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 14:20
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 14:20
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 21:06
Total/NA	Prep	8015NM Prep			112007	FC	EET MID	06/11/25 12:30
Total/NA	Analysis	8015B NM		1	112080	TKC	EET MID	06/12/25 21:06
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 09:59

Client Sample ID: FS03

Lab Sample ID: 880-59187-3
Matrix: Solid
Date Collected: 06/10/25 12:26
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 14:41
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 14:41
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 21:23
Total/NA	Prep	8015NM Prep			112007	FC	EET MID	06/11/25 12:30
Total/NA	Analysis	8015B NM		1	112080	TKC	EET MID	06/12/25 21:23
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 10:06

Client Sample ID: FS04

Lab Sample ID: 880-59187-4
Matrix: Solid
Date Collected: 06/10/25 12:28
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 15:01
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 15:01

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS04

Lab Sample ID: 880-59187-4

Date Collected: 06/10/25 12:28
Matrix: Solid
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 21:39
Total/NA	Prep	8015NM Prep			112007	FC	EET MID	06/11/25 12:30
Total/NA	Analysis	8015B NM		1	112080	TKC	EET MID	06/12/25 21:39
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 10:13

Client Sample ID: FS05

Lab Sample ID: 880-59187-5

Date Collected: 06/10/25 12:30
Matrix: Solid
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 15:22
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 15:22
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 21:57
Total/NA	Prep	8015NM Prep			112007	FC	EET MID	06/11/25 12:30
Total/NA	Analysis	8015B NM		1	112080	TKC	EET MID	06/12/25 21:57
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 10:20

Client Sample ID: FS06

Lab Sample ID: 880-59187-6

Date Collected: 06/10/25 12:32
Matrix: Solid
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 15:42
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 15:42
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 13:13
Total/NA	Prep	8015NM Prep			112031	EL	EET MID	06/11/25 16:02
Total/NA	Analysis	8015B NM		1	112078	TKC	EET MID	06/12/25 13:13
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 10:41

Client Sample ID: FS07

Lab Sample ID: 880-59187-7

Date Collected: 06/10/25 12:34
Matrix: Solid
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 16:02
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 16:02
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 13:29
Total/NA	Prep	8015NM Prep			112031	EL	EET MID	06/11/25 16:02
Total/NA	Analysis	8015B NM		1	112078	TKC	EET MID	06/12/25 13:29

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Client Sample ID: FS07

Lab Sample ID: 880-59187-7
Matrix: Solid
Date Collected: 06/10/25 12:34
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 10:48

Client Sample ID: FS08

Lab Sample ID: 880-59187-8
Matrix: Solid
Date Collected: 06/10/25 12:36
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 16:23
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 16:23
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 12:57
Total/NA	Prep	8015NM Prep			112058	EL	EET MID	06/12/25 08:08
Total/NA	Analysis	8015B NM		1	112080	TKC	EET MID	06/12/25 12:57
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 10:55

Client Sample ID: SW01

Lab Sample ID: 880-59187-9
Matrix: Solid
Date Collected: 06/10/25 12:38
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 16:43
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 16:43
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 13:13
Total/NA	Prep	8015NM Prep			112058	EL	EET MID	06/12/25 08:08
Total/NA	Analysis	8015B NM		1	112080	TKC	EET MID	06/12/25 13:13
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 11:02

Client Sample ID: SW02

Lab Sample ID: 880-59187-10
Matrix: Solid
Date Collected: 06/10/25 12:40
Date Received: 06/11/25 08:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111994	MNR	EET MID	06/11/25 11:54
Total/NA	Analysis	8021B		1	111938	MNR	EET MID	06/11/25 17:04
Total/NA	Analysis	Total BTEX		1	112126	SM	EET MID	06/11/25 17:04
Total/NA	Analysis	8015 NM		1	112130	SM	EET MID	06/12/25 13:29
Total/NA	Prep	8015NM Prep			112058	EL	EET MID	06/12/25 08:08
Total/NA	Analysis	8015B NM		1	112080	TKC	EET MID	06/12/25 13:29
Soluble	Leach	DI Leach			112056	SA	EET MID	06/12/25 07:53
Soluble	Analysis	300.0		1	112064	CH	EET MID	06/12/25 11:09

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Job ID: 880-59187-1
Project/Site: Atticus State Com 521H
SDG: Lea County

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: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

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: Atticus State Com 521H

Job ID: 880-59187-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-59187-1	FS01	Solid	06/10/25 12:22	06/11/25 08:03	2'
880-59187-2	FS02	Solid	06/10/25 12:24	06/11/25 08:03	2'
880-59187-3	FS03	Solid	06/10/25 12:26	06/11/25 08:03	2'
880-59187-4	FS04	Solid	06/10/25 12:28	06/11/25 08:03	2'
880-59187-5	FS05	Solid	06/10/25 12:30	06/11/25 08:03	2'
880-59187-6	FS06	Solid	06/10/25 12:32	06/11/25 08:03	2'
880-59187-7	FS07	Solid	06/10/25 12:34	06/11/25 08:03	2'
880-59187-8	FS08	Solid	06/10/25 12:36	06/11/25 08:03	2'
880-59187-9	SW01	Solid	06/10/25 12:38	06/11/25 08:03	0-2'
880-59187-10	SW02	Solid	06/10/25 12:40	06/11/25 08:03	0-2'

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Chain of Custody

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

880-59187 Chain of Custody

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Project Manager:	Hadlie Green	Bill to: (if different)	Ensolum Attn Hadlie Green
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	(432)557-8895		hgreen@ensolum.com tgaudian@ensolum.com

Work Order Comments

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

Project Name:	Atticus State Com 521H	Turn Around	
Project Number:	03D2024321	☐ Routine ☐ Rush	
Project Location:	Lea County	Due Date:	
Sampler's Name:	Tabitha Guadian	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D2024321		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR-8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.6	
Total Containers:		Corrected Temperature:	2.5	

Parameters

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX 8021	TPH 8015	Chlorides 300	Sample Comments
FS01		photos	1222	2'	C	1	X	X	X	
FS02			1224	2'						
FS03			1226	2'						
FS04			1228	2'						
FS05			1230	2'						
FS06			1232	2'						
FS07			1234	2'						
FS08			1236	2'						
SW01			1238	0-2'						
SW02			1240	0-2'						

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 SiO_2 Na Sr Tl 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 Tl 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	Kelly Randell Lee	6/11/25 0803	4		
3			6		
5					

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-59187-1
SDG Number: Lea County

Login Number: 59187
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 6/18/2025 12:43:47 PM

JOB DESCRIPTION

03D2024321

JOB NUMBER

880-59310-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

Job Notes

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

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

Authorization

Generated
6/18/2025 12:43:47 PM

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

Client: Ensolum
Project/Site:

Laboratory Job ID: 880-59310-1
SDG: 03D2024321

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 880-59310-1
Project/Site: SDG: 03D2024321

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
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:

Job ID: 880-59310-1

Job ID: 880-59310-1 Eurofins Midland

Job Narrative
880-59310-1

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 6/13/2025 4:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-112270 and analytical batch 880-112273 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics
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 880-112292 and analytical batch 880-112338 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.

Client Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Client Sample ID: FS09

Date Collected: 06/13/25 10:05
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-1

Matrix: Solid

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		06/16/25 10:54	06/16/25 17:14	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		06/16/25 10:54	06/16/25 17:14	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		06/16/25 10:54	06/16/25 17:14	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		06/16/25 10:54	06/16/25 17:14	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		06/16/25 10:54	06/16/25 17:14	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		06/16/25 10:54	06/16/25 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/16/25 10:54*	*06/16/25 17:14*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/16/25 10:54*	*06/16/25 17:14*	*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			06/16/25 17:14	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			06/18/25 02:22	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		06/16/25 09:28	06/18/25 02:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 02:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/16/25 09:28*	*06/18/25 02:22*	*1*
o-Terphenyl	*99*		*70 - 130*	*06/16/25 09:28*	*06/18/25 02:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**307**	**F1**	10.0		mg/Kg			06/17/25 01:56	1

Client Sample ID: FS11

Date Collected: 06/13/25 10:12
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-2

Matrix: Solid

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		06/16/25 10:54	06/16/25 17:35	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		06/16/25 10:54	06/16/25 17:35	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		06/16/25 10:54	06/16/25 17:35	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		06/16/25 10:54	06/16/25 17:35	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		06/16/25 10:54	06/16/25 17:35	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		06/16/25 10:54	06/16/25 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/16/25 10:54*	*06/16/25 17:35*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/16/25 10:54*	*06/16/25 17:35*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Client Sample ID: FS11

Date Collected: 06/13/25 10:12
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-2
Matrix: Solid

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			06/16/25 17:35	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			06/18/25 03:12	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		06/16/25 09:28	06/18/25 03:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 03:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/16/25 09:28*	*06/18/25 03:12*	*1*
o-Terphenyl	*102*		*70 - 130*	*06/16/25 09:28*	*06/18/25 03:12*	*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			06/17/25 02:18	1

Client Sample ID: FS12

Date Collected: 06/13/25 10:14
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-3
Matrix: Solid

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		06/16/25 10:54	06/16/25 17:55	1
Toluene	<0.00198	U *-	0.00198		mg/Kg		06/16/25 10:54	06/16/25 17:55	1
Ethylbenzene	<0.00198	U *-	0.00198		mg/Kg		06/16/25 10:54	06/16/25 17:55	1
m-Xylene & p-Xylene	<0.00396	U *-	0.00396		mg/Kg		06/16/25 10:54	06/16/25 17:55	1
o-Xylene	<0.00198	U *-	0.00198		mg/Kg		06/16/25 10:54	06/16/25 17:55	1
Xylenes, Total	<0.00396	U *-	0.00396		mg/Kg		06/16/25 10:54	06/16/25 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/16/25 10:54*	*06/16/25 17:55*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/16/25 10:54*	*06/16/25 17:55*	*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			06/16/25 17:55	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			06/18/25 03:28	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		06/16/25 09:28	06/18/25 03:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 03:28	1

Client Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Client Sample ID: FS12

Lab Sample ID: 880-59310-3
Date Collected: 06/13/25 10:14
Matrix: Solid
Date Received: 06/13/25 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*06/16/25 09:28*	*06/18/25 03:28*	*1*
o-Terphenyl	*100*		*70 - 130*	*06/16/25 09:28*	*06/18/25 03:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**121**		9.94		mg/Kg			06/17/25 02:25	1

Client Sample ID: SW03

Lab Sample ID: 880-59310-4
Date Collected: 06/13/25 10:20
Matrix: Solid
Date Received: 06/13/25 16:56

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		06/16/25 10:54	06/16/25 18:16	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		06/16/25 10:54	06/16/25 18:16	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		06/16/25 10:54	06/16/25 18:16	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		06/16/25 10:54	06/16/25 18:16	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		06/16/25 10:54	06/16/25 18:16	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		06/16/25 10:54	06/16/25 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/16/25 10:54*	*06/16/25 18:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/16/25 10:54*	*06/16/25 18:16*	*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			06/16/25 18:16	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			06/18/25 03:44	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	49.8		mg/Kg		06/16/25 09:28	06/18/25 03:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/16/25 09:28	06/18/25 03:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/16/25 09:28	06/18/25 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*06/16/25 09:28*	*06/18/25 03:44*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/16/25 09:28*	*06/18/25 03:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**186**		9.98		mg/Kg			06/17/25 02:32	1

Client Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Client Sample ID: SW04

Date Collected: 06/13/25 10:22
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-5
Matrix: Solid

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		06/16/25 10:54	06/16/25 18:36	1
Toluene	<0.00199	U *-	0.00199		mg/Kg		06/16/25 10:54	06/16/25 18:36	1
Ethylbenzene	<0.00199	U *-	0.00199		mg/Kg		06/16/25 10:54	06/16/25 18:36	1
m-Xylene & p-Xylene	<0.00398	U *-	0.00398		mg/Kg		06/16/25 10:54	06/16/25 18:36	1
o-Xylene	<0.00199	U *-	0.00199		mg/Kg		06/16/25 10:54	06/16/25 18:36	1
Xylenes, Total	<0.00398	U *-	0.00398		mg/Kg		06/16/25 10:54	06/16/25 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/16/25 10:54*	*06/16/25 18:36*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/16/25 10:54*	*06/16/25 18:36*	*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			06/16/25 18:36	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			06/18/25 04:02	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		06/16/25 09:28	06/18/25 04:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/16/25 09:28	06/18/25 04:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/16/25 09:28	06/18/25 04:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*06/16/25 09:28*	*06/18/25 04:02*	*1*
o-Terphenyl	*101*		*70 - 130*	*06/16/25 09:28*	*06/18/25 04:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**388**		9.98		mg/Kg			06/17/25 02:40	1

Client Sample ID: SW05

Date Collected: 06/13/25 13:26
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-6
Matrix: Solid

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		06/16/25 10:54	06/16/25 18:57	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		06/16/25 10:54	06/16/25 18:57	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		06/16/25 10:54	06/16/25 18:57	1
m-Xylene & p-Xylene	<0.00399	U *-	0.00399		mg/Kg		06/16/25 10:54	06/16/25 18:57	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		06/16/25 10:54	06/16/25 18:57	1
Xylenes, Total	<0.00399	U *-	0.00399		mg/Kg		06/16/25 10:54	06/16/25 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/16/25 10:54*	*06/16/25 18:57*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/16/25 10:54*	*06/16/25 18:57*	*1*

Client Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Client Sample ID: SW05

Date Collected: 06/13/25 13:26
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-6
Matrix: Solid

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			06/16/25 18:57	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			06/18/25 04:18	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		06/16/25 09:28	06/18/25 04:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 04:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 04:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*06/16/25 09:28*	*06/18/25 04:18*	*1*
o-Terphenyl	*114*		*70 - 130*	*06/16/25 09:28*	*06/18/25 04:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**576**		10.1		mg/Kg			06/17/25 03:01	1

Client Sample ID: SW06

Date Collected: 06/13/25 10:26
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-7
Matrix: Solid

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		06/16/25 10:54	06/16/25 19:17	1
Toluene	<0.00200	U *-	0.00200		mg/Kg		06/16/25 10:54	06/16/25 19:17	1
Ethylbenzene	<0.00200	U *-	0.00200		mg/Kg		06/16/25 10:54	06/16/25 19:17	1
m-Xylene & p-Xylene	<0.00400	U *-	0.00400		mg/Kg		06/16/25 10:54	06/16/25 19:17	1
o-Xylene	<0.00200	U *-	0.00200		mg/Kg		06/16/25 10:54	06/16/25 19:17	1
Xylenes, Total	<0.00400	U *-	0.00400		mg/Kg		06/16/25 10:54	06/16/25 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/16/25 10:54*	*06/16/25 19:17*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/16/25 10:54*	*06/16/25 19:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			06/16/25 19:17	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			06/18/25 04:34	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		06/16/25 09:28	06/18/25 04:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 04:34	1

Client Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Client Sample ID: SW06

Lab Sample ID: 880-59310-7
Date Collected: 06/13/25 10:26
Matrix: Solid
Date Received: 06/13/25 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 04:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*06/16/25 09:28*	*06/18/25 04:34*	*1*
o-Terphenyl	*97*		*70 - 130*	*06/16/25 09:28*	*06/18/25 04:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**319**		10.1		mg/Kg			06/17/25 03:08	1

Client Sample ID: SW07

Lab Sample ID: 880-59310-8
Date Collected: 06/13/25 10:28
Matrix: Solid
Date Received: 06/13/25 16:56

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		06/16/25 10:54	06/16/25 19:38	1
Toluene	<0.00201	U *-	0.00201		mg/Kg		06/16/25 10:54	06/16/25 19:38	1
Ethylbenzene	<0.00201	U *-	0.00201		mg/Kg		06/16/25 10:54	06/16/25 19:38	1
m-Xylene & p-Xylene	<0.00402	U *-	0.00402		mg/Kg		06/16/25 10:54	06/16/25 19:38	1
o-Xylene	<0.00201	U *-	0.00201		mg/Kg		06/16/25 10:54	06/16/25 19:38	1
Xylenes, Total	<0.00402	U *-	0.00402		mg/Kg		06/16/25 10:54	06/16/25 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/16/25 10:54*	*06/16/25 19:38*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/16/25 10:54*	*06/16/25 19:38*	*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			06/16/25 19:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**68.4**		50.0		mg/Kg			06/18/25 04:50	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		06/16/25 09:28	06/18/25 04:50	1
Diesel Range Organics (Over C10-C28)	**68.4**		50.0		mg/Kg		06/16/25 09:28	06/18/25 04:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 04:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*06/16/25 09:28*	*06/18/25 04:50*	*1*
o-Terphenyl	*106*		*70 - 130*	*06/16/25 09:28*	*06/18/25 04:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**190**		9.96		mg/Kg			06/17/25 03:16	1

Surrogate Summary

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-59310-1	FS09	104	99
880-59310-2	FS11	108	98
880-59310-3	FS12	102	98
880-59310-4	SW03	109	96
880-59310-5	SW04	103	98
880-59310-6	SW05	108	95
880-59310-7	SW06	102	99
880-59310-8	SW07	103	98
LCS 880-112270/1-A	Lab Control Sample	102	99
LCSD 880-112270/2-A	Lab Control Sample Dup	104	97
MB 880-112270/5-A	Method Blank	96	96

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-59310-1	FS09	100	99
880-59310-1 MS	FS09	93	99
880-59310-1 MSD	FS09	111	101
880-59310-2	FS11	101	102
880-59310-3	FS12	99	100
880-59310-4	SW03	115	114
880-59310-5	SW04	101	101
880-59310-6	SW05	114	114
880-59310-7	SW06	100	97
880-59310-8	SW07	107	106
LCS 880-112287/2-A	Lab Control Sample	95	103
LCSD 880-112287/3-A	Lab Control Sample Dup	106	114
MB 880-112287/1-A	Method Blank	76	77

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-112270/5-A
Matrix: Solid
Analysis Batch: 112273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112270

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/25 08:28	06/16/25 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/25 08:28	06/16/25 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/25 08:28	06/16/25 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/16/25 08:28	06/16/25 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/25 08:28	06/16/25 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/16/25 08:28	06/16/25 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/16/25 08:28*	*06/16/25 11:33*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/16/25 08:28*	*06/16/25 11:33*	*1*

Lab Sample ID: LCS 880-112270/1-A
Matrix: Solid
Analysis Batch: 112273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112270

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07663		mg/Kg		77	70 - 130		
Toluene			0.100	0.06751	*-	mg/Kg		68	70 - 130		
Ethylbenzene			0.100	0.07207		mg/Kg		72	70 - 130		
m-Xylene & p-Xylene			0.200	0.1462		mg/Kg		73	70 - 130		
o-Xylene			0.100	0.07580		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-112270/2-A
Matrix: Solid
Analysis Batch: 112273

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112270

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.06700	*-	mg/Kg		67	70 - 130	13	35
Toluene			0.100	0.06065	*-	mg/Kg		61	70 - 130	11	35
Ethylbenzene			0.100	0.06468	*-	mg/Kg		65	70 - 130	11	35
m-Xylene & p-Xylene			0.200	0.1322	*-	mg/Kg		66	70 - 130	10	35
o-Xylene			0.100	0.06920	*-	mg/Kg		69	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

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

Lab Sample ID: MB 880-112287/1-A
Matrix: Solid
Analysis Batch: 112402

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112287

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		06/16/25 09:28	06/18/25 01:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 01:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/25 09:28	06/18/25 01:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/16/25 09:28*	*06/18/25 01:34*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/16/25 09:28*	*06/18/25 01:34*	*1*

Lab Sample ID: LCS 880-112287/2-A
Matrix: Solid
Analysis Batch: 112402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112287

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	940.3		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	963.9		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: LCSD 880-112287/3-A
Matrix: Solid
Analysis Batch: 112402

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112287

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1017		mg/Kg		102	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	1033		mg/Kg		103	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Lab Sample ID: 880-59310-1 MS
Matrix: Solid
Analysis Batch: 112402

Client Sample ID: FS09
Prep Type: Total/NA
Prep Batch: 112287

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	714.9		mg/Kg		72	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	997	805.5		mg/Kg		81	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

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

Lab Sample ID: 880-59310-1 MS
Matrix: Solid
Analysis Batch: 112402

Client Sample ID: FS09
Prep Type: Total/NA
Prep Batch: 112287

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-59310-1 MSD
Matrix: Solid
Analysis Batch: 112402

Client Sample ID: FS09
Prep Type: Total/NA
Prep Batch: 112287

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	752.6		mg/Kg		75	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.0	U	997	788.9		mg/Kg		79	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	101		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112292/1-A
Matrix: Solid
Analysis Batch: 112338

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			06/17/25 01:35	1

Lab Sample ID: LCS 880-112292/2-A
Matrix: Solid
Analysis Batch: 112338

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	265.5		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-112292/3-A
Matrix: Solid
Analysis Batch: 112338

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	260.6		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 880-59310-1 MS
Matrix: Solid
Analysis Batch: 112338

Client Sample ID: FS09
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	307	F1	251	526.0	F1	mg/Kg		87	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-59310-1 MSD
Matrix: Solid
Analysis Batch: 112338

Client Sample ID: FS09
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	307	F1	251	521.7	F1	mg/Kg		86	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

GC VOA

Prep Batch: 112270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59310-1	FS09	Total/NA	Solid	5035	
880-59310-2	FS11	Total/NA	Solid	5035	
880-59310-3	FS12	Total/NA	Solid	5035	
880-59310-4	SW03	Total/NA	Solid	5035	
880-59310-5	SW04	Total/NA	Solid	5035	
880-59310-6	SW05	Total/NA	Solid	5035	
880-59310-7	SW06	Total/NA	Solid	5035	
880-59310-8	SW07	Total/NA	Solid	5035	
MB 880-112270/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112270/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112270/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 112273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59310-1	FS09	Total/NA	Solid	8021B	112270
880-59310-2	FS11	Total/NA	Solid	8021B	112270
880-59310-3	FS12	Total/NA	Solid	8021B	112270
880-59310-4	SW03	Total/NA	Solid	8021B	112270
880-59310-5	SW04	Total/NA	Solid	8021B	112270
880-59310-6	SW05	Total/NA	Solid	8021B	112270
880-59310-7	SW06	Total/NA	Solid	8021B	112270
880-59310-8	SW07	Total/NA	Solid	8021B	112270
MB 880-112270/5-A	Method Blank	Total/NA	Solid	8021B	112270
LCS 880-112270/1-A	Lab Control Sample	Total/NA	Solid	8021B	112270
LCSD 880-112270/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112270

Analysis Batch: 112450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59310-1	FS09	Total/NA	Solid	Total BTEX	
880-59310-2	FS11	Total/NA	Solid	Total BTEX	
880-59310-3	FS12	Total/NA	Solid	Total BTEX	
880-59310-4	SW03	Total/NA	Solid	Total BTEX	
880-59310-5	SW04	Total/NA	Solid	Total BTEX	
880-59310-6	SW05	Total/NA	Solid	Total BTEX	
880-59310-7	SW06	Total/NA	Solid	Total BTEX	
880-59310-8	SW07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 112287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59310-1	FS09	Total/NA	Solid	8015NM Prep	
880-59310-2	FS11	Total/NA	Solid	8015NM Prep	
880-59310-3	FS12	Total/NA	Solid	8015NM Prep	
880-59310-4	SW03	Total/NA	Solid	8015NM Prep	
880-59310-5	SW04	Total/NA	Solid	8015NM Prep	
880-59310-6	SW05	Total/NA	Solid	8015NM Prep	
880-59310-7	SW06	Total/NA	Solid	8015NM Prep	
880-59310-8	SW07	Total/NA	Solid	8015NM Prep	
MB 880-112287/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112287/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

GC Semi VOA (Continued)

Prep Batch: 112287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-112287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-59310-1 MS	FS09	Total/NA	Solid	8015NM Prep	
880-59310-1 MSD	FS09	Total/NA	Solid	8015NM Prep	

Analysis Batch: 112402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59310-1	FS09	Total/NA	Solid	8015B NM	112287
880-59310-2	FS11	Total/NA	Solid	8015B NM	112287
880-59310-3	FS12	Total/NA	Solid	8015B NM	112287
880-59310-4	SW03	Total/NA	Solid	8015B NM	112287
880-59310-5	SW04	Total/NA	Solid	8015B NM	112287
880-59310-6	SW05	Total/NA	Solid	8015B NM	112287
880-59310-7	SW06	Total/NA	Solid	8015B NM	112287
880-59310-8	SW07	Total/NA	Solid	8015B NM	112287
MB 880-112287/1-A	Method Blank	Total/NA	Solid	8015B NM	112287
LCS 880-112287/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112287
LCSD 880-112287/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112287
880-59310-1 MS	FS09	Total/NA	Solid	8015B NM	112287
880-59310-1 MSD	FS09	Total/NA	Solid	8015B NM	112287

Analysis Batch: 112499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59310-1	FS09	Total/NA	Solid	8015 NM	
880-59310-2	FS11	Total/NA	Solid	8015 NM	
880-59310-3	FS12	Total/NA	Solid	8015 NM	
880-59310-4	SW03	Total/NA	Solid	8015 NM	
880-59310-5	SW04	Total/NA	Solid	8015 NM	
880-59310-6	SW05	Total/NA	Solid	8015 NM	
880-59310-7	SW06	Total/NA	Solid	8015 NM	
880-59310-8	SW07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 112292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59310-1	FS09	Soluble	Solid	DI Leach	
880-59310-2	FS11	Soluble	Solid	DI Leach	
880-59310-3	FS12	Soluble	Solid	DI Leach	
880-59310-4	SW03	Soluble	Solid	DI Leach	
880-59310-5	SW04	Soluble	Solid	DI Leach	
880-59310-6	SW05	Soluble	Solid	DI Leach	
880-59310-7	SW06	Soluble	Solid	DI Leach	
880-59310-8	SW07	Soluble	Solid	DI Leach	
MB 880-112292/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-112292/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-112292/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-59310-1 MS	FS09	Soluble	Solid	DI Leach	
880-59310-1 MSD	FS09	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

HPLC/IC

Analysis Batch: 112338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59310-1	FS09	Soluble	Solid	300.0	112292
880-59310-2	FS11	Soluble	Solid	300.0	112292
880-59310-3	FS12	Soluble	Solid	300.0	112292
880-59310-4	SW03	Soluble	Solid	300.0	112292
880-59310-5	SW04	Soluble	Solid	300.0	112292
880-59310-6	SW05	Soluble	Solid	300.0	112292
880-59310-7	SW06	Soluble	Solid	300.0	112292
880-59310-8	SW07	Soluble	Solid	300.0	112292
MB 880-112292/1-A	Method Blank	Soluble	Solid	300.0	112292
LCS 880-112292/2-A	Lab Control Sample	Soluble	Solid	300.0	112292
LCSD 880-112292/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	112292
880-59310-1 MS	FS09	Soluble	Solid	300.0	112292
880-59310-1 MSD	FS09	Soluble	Solid	300.0	112292

Lab Chronicle

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Client Sample ID: FS09
Date Collected: 06/13/25 10:05
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			112270	MNR	EET MID	06/16/25 10:54
Total/NA	Analysis	8021B		1	112273	MNR	EET MID	06/16/25 17:14
Total/NA	Analysis	Total BTEX		1	112450	SM	EET MID	06/16/25 17:14
Total/NA	Analysis	8015 NM		1	112499	SM	EET MID	06/18/25 02:22
Total/NA	Prep	8015NM Prep			112287	EL	EET MID	06/16/25 09:28
Total/NA	Analysis	8015B NM		1	112402	TKC	EET MID	06/18/25 02:22
Soluble	Leach	DI Leach			112292	SMC	EET MID	06/16/25 09:46
Soluble	Analysis	300.0		1	112338	CH	EET MID	06/17/25 01:56

Client Sample ID: FS11
Date Collected: 06/13/25 10:12
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			112270	MNR	EET MID	06/16/25 10:54
Total/NA	Analysis	8021B		1	112273	MNR	EET MID	06/16/25 17:35
Total/NA	Analysis	Total BTEX		1	112450	SM	EET MID	06/16/25 17:35
Total/NA	Analysis	8015 NM		1	112499	SM	EET MID	06/18/25 03:12
Total/NA	Prep	8015NM Prep			112287	EL	EET MID	06/16/25 09:28
Total/NA	Analysis	8015B NM		1	112402	TKC	EET MID	06/18/25 03:12
Soluble	Leach	DI Leach			112292	SMC	EET MID	06/16/25 09:46
Soluble	Analysis	300.0		1	112338	CH	EET MID	06/17/25 02:18

Client Sample ID: FS12
Date Collected: 06/13/25 10:14
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			112270	MNR	EET MID	06/16/25 10:54
Total/NA	Analysis	8021B		1	112273	MNR	EET MID	06/16/25 17:55
Total/NA	Analysis	Total BTEX		1	112450	SM	EET MID	06/16/25 17:55
Total/NA	Analysis	8015 NM		1	112499	SM	EET MID	06/18/25 03:28
Total/NA	Prep	8015NM Prep			112287	EL	EET MID	06/16/25 09:28
Total/NA	Analysis	8015B NM		1	112402	TKC	EET MID	06/18/25 03:28
Soluble	Leach	DI Leach			112292	SMC	EET MID	06/16/25 09:46
Soluble	Analysis	300.0		1	112338	CH	EET MID	06/17/25 02:25

Client Sample ID: SW03
Date Collected: 06/13/25 10:20
Date Received: 06/13/25 16:56

Lab Sample ID: 880-59310-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			112270	MNR	EET MID	06/16/25 10:54
Total/NA	Analysis	8021B		1	112273	MNR	EET MID	06/16/25 18:16
Total/NA	Analysis	Total BTEX		1	112450	SM	EET MID	06/16/25 18:16

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Lab Chronicle

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Client Sample ID: SW03

Lab Sample ID: 880-59310-4

Date Collected: 06/13/25 10:20
Matrix: Solid
Date Received: 06/13/25 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	112499	SM	EET MID	06/18/25 03:44
Total/NA	Prep	8015NM Prep			112287	EL	EET MID	06/16/25 09:28
Total/NA	Analysis	8015B NM		1	112402	TKC	EET MID	06/18/25 03:44
Soluble	Leach	DI Leach			112292	SMC	EET MID	06/16/25 09:46
Soluble	Analysis	300.0		1	112338	CH	EET MID	06/17/25 02:32

Client Sample ID: SW04

Lab Sample ID: 880-59310-5

Date Collected: 06/13/25 10:22
Matrix: Solid
Date Received: 06/13/25 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			112270	MNR	EET MID	06/16/25 10:54
Total/NA	Analysis	8021B		1	112273	MNR	EET MID	06/16/25 18:36
Total/NA	Analysis	Total BTEX		1	112450	SM	EET MID	06/16/25 18:36
Total/NA	Analysis	8015 NM		1	112499	SM	EET MID	06/18/25 04:02
Total/NA	Prep	8015NM Prep			112287	EL	EET MID	06/16/25 09:28
Total/NA	Analysis	8015B NM		1	112402	TKC	EET MID	06/18/25 04:02
Soluble	Leach	DI Leach			112292	SMC	EET MID	06/16/25 09:46
Soluble	Analysis	300.0		1	112338	CH	EET MID	06/17/25 02:40

Client Sample ID: SW05

Lab Sample ID: 880-59310-6

Date Collected: 06/13/25 13:26
Matrix: Solid
Date Received: 06/13/25 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			112270	MNR	EET MID	06/16/25 10:54
Total/NA	Analysis	8021B		1	112273	MNR	EET MID	06/16/25 18:57
Total/NA	Analysis	Total BTEX		1	112450	SM	EET MID	06/16/25 18:57
Total/NA	Analysis	8015 NM		1	112499	SM	EET MID	06/18/25 04:18
Total/NA	Prep	8015NM Prep			112287	EL	EET MID	06/16/25 09:28
Total/NA	Analysis	8015B NM		1	112402	TKC	EET MID	06/18/25 04:18
Soluble	Leach	DI Leach			112292	SMC	EET MID	06/16/25 09:46
Soluble	Analysis	300.0		1	112338	CH	EET MID	06/17/25 03:01

Client Sample ID: SW06

Lab Sample ID: 880-59310-7

Date Collected: 06/13/25 10:26
Matrix: Solid
Date Received: 06/13/25 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			112270	MNR	EET MID	06/16/25 10:54
Total/NA	Analysis	8021B		1	112273	MNR	EET MID	06/16/25 19:17
Total/NA	Analysis	Total BTEX		1	112450	SM	EET MID	06/16/25 19:17
Total/NA	Analysis	8015 NM		1	112499	SM	EET MID	06/18/25 04:34
Total/NA	Prep	8015NM Prep			112287	EL	EET MID	06/16/25 09:28
Total/NA	Analysis	8015B NM		1	112402	TKC	EET MID	06/18/25 04:34

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Lab Chronicle

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

Client Sample ID: SW06

Lab Sample ID: 880-59310-7

Date Collected: 06/13/25 10:26
Matrix: Solid
Date Received: 06/13/25 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			112292	SMC	EET MID	06/16/25 09:46
Soluble	Analysis	300.0		1	112338	CH	EET MID	06/17/25 03:08

Client Sample ID: SW07

Lab Sample ID: 880-59310-8

Date Collected: 06/13/25 10:28
Matrix: Solid
Date Received: 06/13/25 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			112270	MNR	EET MID	06/16/25 10:54
Total/NA	Analysis	8021B		1	112273	MNR	EET MID	06/16/25 19:38
Total/NA	Analysis	Total BTEX		1	112450	SM	EET MID	06/16/25 19:38
Total/NA	Analysis	8015 NM		1	112499	SM	EET MID	06/18/25 04:50
Total/NA	Prep	8015NM Prep			112287	EL	EET MID	06/16/25 09:28
Total/NA	Analysis	8015B NM		1	112402	TKC	EET MID	06/18/25 04:50
Soluble	Leach	DI Leach			112292	SMC	EET MID	06/16/25 09:46
Soluble	Analysis	300.0		1	112338	CH	EET MID	06/17/25 03:16

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site:

Job ID: 880-59310-1
SDG: 03D2024321

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:

Job ID: 880-59310-1
SDG: 03D2024321

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:

Job ID: 880-59310-1
SDG: 03D2024321

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-59310-1	FS09	Solid	06/13/25 10:05	06/13/25 16:56
880-59310-2	FS11	Solid	06/13/25 10:12	06/13/25 16:56
880-59310-3	FS12	Solid	06/13/25 10:14	06/13/25 16:56
880-59310-4	SW03	Solid	06/13/25 10:20	06/13/25 16:56
880-59310-5	SW04	Solid	06/13/25 10:22	06/13/25 16:56
880-59310-6	SW05	Solid	06/13/25 13:26	06/13/25 16:56
880-59310-7	SW06	Solid	06/13/25 10:26	06/13/25 16:56
880-59310-8	SW07	Solid	06/13/25 10:28	06/13/25 16:56

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Chain of Custody

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

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Wo

880-59310 Chain of Custody

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld Ste Ste 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	432-557-8895 Email: hgreen@ensolum.com		

Work Order Comments

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

Project Name:		Turn Around	
Project Number:	03D2024321	☑ Routine ☐ Rush	
Project Location:	Eddy County, NM	Due Date:	
Sampler's Name:	LeAndra Tarin	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D2024321		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.7	
Total Containers:		Corrected Temperature:	3.6	

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont
FS09	S	6/13/25	1005	1'	C	1
FS 11	S		1012	2'		
FS 12	S		1014	2'		
~~FS~~ SW03	S		1020	2'		
~~FS~~ SW04	S		1022	1'		
SW05	S		1326	1'		
SW06	S		1026	1'		
SW07	S		1028	2'		

ANALYSIS REQUEST — Parameters: BTEX 8021, TPH 8015, Chloride 300; 6/13/25; NFE

Sample Comments

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1056 5/13/25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-59310-1
SDG Number: 03D2024321

Login Number: 59310
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

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.	True	
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	

ENSOLUM

APPENDIX C

Remediation Work Plan, dated February 6, 2025

ENSOLUM

February 6, 2025

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

Re: Remediation Work Plan
Atticus State Com #521H
Incident Number NAPP2403637444
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared the following *Remediation Work Plan* (*Work Plan*) to document assessment activities completed to date and propose a work plan to address impacted soil identified at the Atticus State Com #521H (Site). The purpose of the Site assessment activities was to delineate the lateral and vertical extent of impacted soil resulting from a flash fire at the Site. The following *Work Plan* proposes to excavate impacted soil within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit N, Section 36, Township 25 South, Range 27 East, in Eddy County, New Mexico (32.0798°, -104.1438°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On February 4, 2024, an equipment malfunction resulted in a flash fire. No fluids were recovered due to the fire burning off any standing fluid. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on February 5, 2024, and the release was assigned Incident Number NAPP2403637444.

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 are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section.

Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) permitted well C-04371-POD 1, located approximately 1.4 miles northwest of the Site. The groundwater well has a reported depth to groundwater of 69 feet bgs and a total depth of 100 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a draw, located approximately 5,057 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area).

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

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

CULTURAL PROPERTIES PROTECTION RULE

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

BIOLOGICAL COMPLIANCE AND REPORTING

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

- The Site is not located within an area of possible threatened, endangered, or sensitive wildlife and plant species.
- The soil type is classified as Reeves-Reagan loams according to the Web Soil Survey. Reeves-Reagan loams is not considered a sensitive soil by the NMSLO definition.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On December 5, 2024, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Four soil samples (SS01 through SS04) were collected around the release at a depth of 0.5 feet bgs to confirm the lateral extent of the release. Five soil samples (SS05 through SS09) were collected within the release to assess the extent of impacted soil. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site assessment and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Environmental Testing in Midland, Texas for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range

organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.

Laboratory analytical results for assessment samples SS01 through SS09 indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria at a depth of 0.5 feet bgs. Based on elevated field screening results and laboratory analytical results for the assessment soil samples, additional delineation activities were warranted.

DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

On December 19, 2024, delineation activities were conducted at the Site to assess the vertical and lateral extent of impacted soil. Potholes PH01 through PH03 were advanced via backhoe within the release extent to maximum depths ranging from 3 feet to 4 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 4 feet bgs. Additionally, SS01 through SS04 were stepped out and collected at a depth of 0.5 feet to confirm the lateral extent of impacted soil.

The soil samples were field screened for VOCs and chloride. Field screening results and observations from the potholes were logged on lithologic soil sampling logs, which are included in Appendix C. The delineation soil samples were handled and analyzed as described above. The delineation soil samples are depicted on Figure 2.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH03 indicated all COC concentrations were compliant with the Closure Criteria at depths ranging from 1-foot to 4 feet bgs. Laboratory analytical results for assessment samples SS02 and SS03 indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for assessment samples SS01 and SS04 indicated chloride concentrations were still exceeding the Closure Criteria. The samples were stepped out laterally and recollected on January 24, 2025, which laboratory analytical results indicated all COC concentrations were compliant with the Closure Criteria and successfully defined the lateral extent of the release.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate soil containing elevated chloride and/or TPH concentrations exist across an approximate 3,560-square foot area and extends to a maximum depth of 2 feet bgs. COG proposes to complete the following remediation activities on pad:

- Excavation of impacted soil to a depth of 2 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria.
- Confirmation soil samples from the floor and sidewalls will be collected on a frequency of one 5-point composite sample for every 200 square feet.
- An estimated 250 cubic yards of impacted soil will be excavated. The excavated soil will be transferred a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

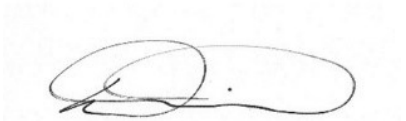
COG will proceed with the excavation and soil sampling activities and will submit a *Closure Report* within 90 days of the date of approval of this *Work Plan* by the NMOCD.

If you have any questions or comments, please contact Ms. Hadlie Green at (432) 557-8895 or hgreen@ensolum.com.

Sincerely,

Ensolum, LLC

Hadlie Green
Project Geologist



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

cc: Justin Carlile, ConocoPhillips Company
NMSLO

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	Lithologic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation

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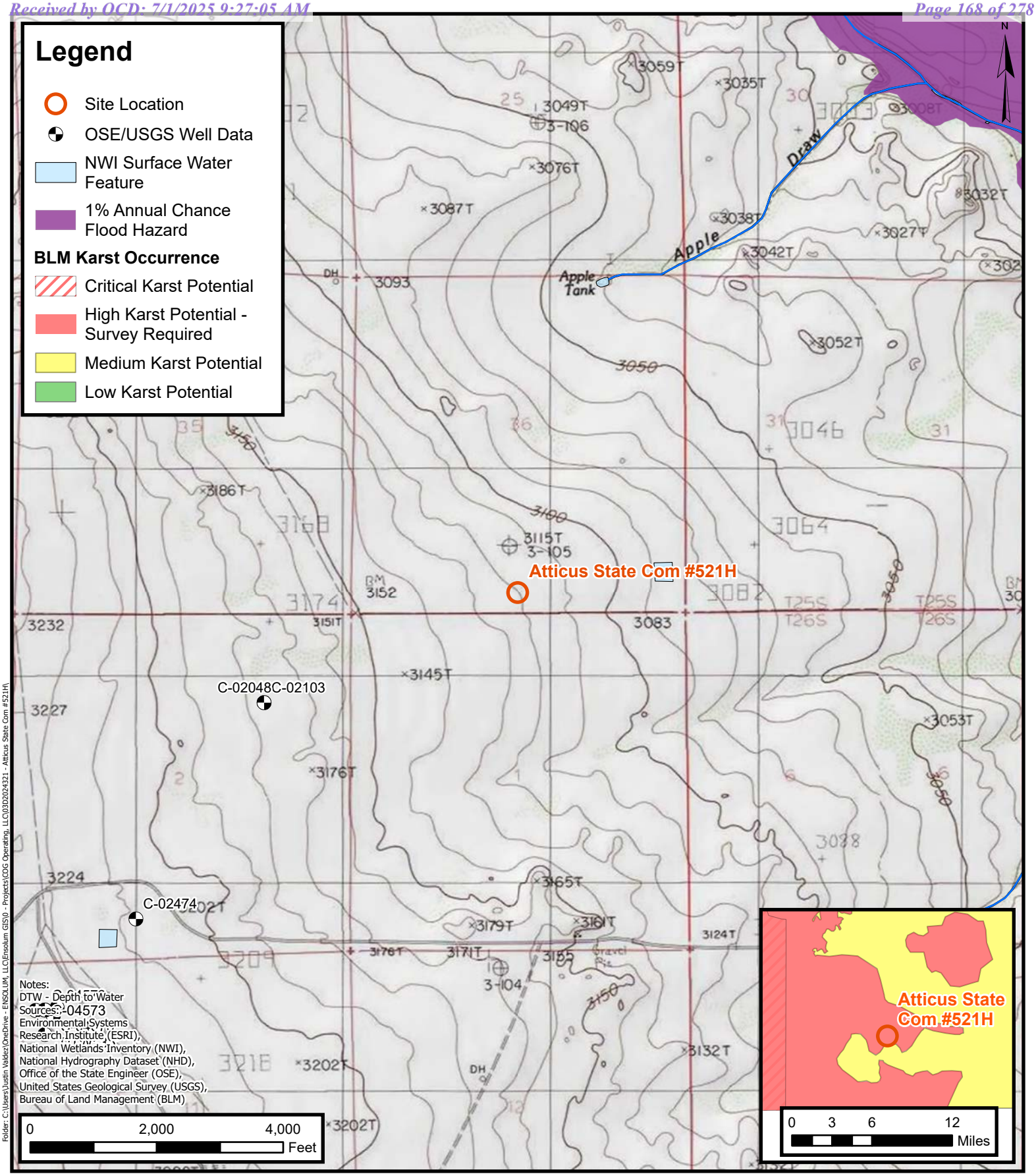
FIGURES



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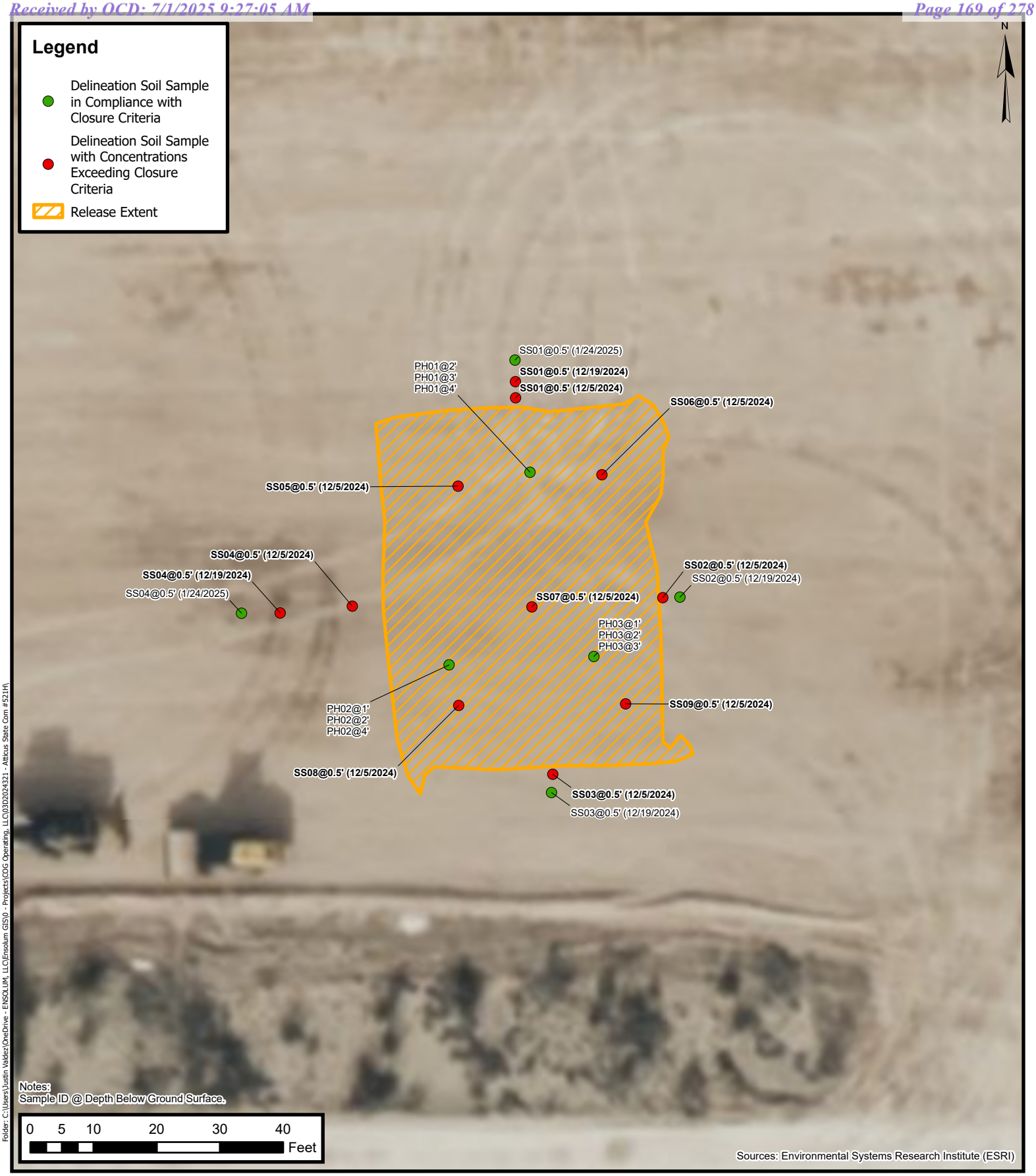
Site Receptor Map

COG Operating, LLC
Atticus State Com #521H
Incident Number: NAPP2403637444
Unit N, Section 36, T 25S, R 27E
Eddy County, New Mexico

FIGURE 1



Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\COG Operating, LLC\03202024321 - Atticus State Com #521H\

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Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

COG Operating, LLC
Atticus State Com #521H
Incident Number: NAPP2403637444
Unit N, Section 36, T 25S, R 27E
Eddy County, New Mexico

FIGURE 2

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Atticus State Com #521H
COG Operating, LLC
Eddy 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
Assessment Soil Samples										
~~SS01~~	~~12/05/2024~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.9~~	~~1,340~~	~~<49.9~~	~~1,340~~	~~1,340~~	~~436~~
~~SS01~~	~~12/19/2024~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~617~~
SS01	01/24/2025	0.5	<0.00200	<0.00399	<49.8	76.6	<49.8	76.6	76.6	26.2
~~SS02~~	~~12/05/2024~~	~~0.5~~	~~<0.00202~~	~~<0.00404~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~922~~
SS02	12/19/2024	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	328
~~SS03~~	~~12/05/2024~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<49.9~~	~~622~~	~~<49.9~~	~~622~~	~~622~~	~~777~~
SS03	12/19/2024	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	407
~~SS04~~	~~12/05/2024~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.8~~	~~762~~	~~<49.8~~	~~762~~	~~762~~	~~858~~
~~SS04~~	~~12/19/2024~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~802~~
SS04	01/24/2025	0.5	<0.00202	<0.00404	<49.6	72.6	<49.6	72.6	72.6	32.1
~~SS05~~	~~12/05/2024~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<50.0~~	~~928~~	~~<50.0~~	~~928~~	~~928~~	~~544~~
~~SS06~~	~~12/05/2024~~	~~0.5~~	~~<0.00202~~	~~<0.00404~~	~~<49.9~~	~~949~~	~~<49.9~~	~~949~~	~~949~~	~~698~~
~~SS07~~	~~12/05/2024~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.8~~	~~277~~	~~<49.8~~	~~277~~	~~277~~	~~2,110~~
~~SS08~~	~~12/05/2024~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<49.9~~	~~292~~	~~<49.9~~	~~292~~	~~292~~	~~3,070~~
~~SS09~~	~~12/05/2024~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.7~~	~~727~~	~~<49.7~~	~~727~~	~~727~~	~~1,770~~
PH01	12/19/2024	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	253
PH01	12/19/2024	3	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	261
PH01	12/19/2024	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	106
PH02	12/19/2024	1	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	272
PH02	12/19/2024	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	152
PH02	12/19/2024	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	36.8
PH03	12/19/2024	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	282
PH03	12/19/2024	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	155
PH03	12/19/2024	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	126

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Atticus State Com #521H
COG Operating, LLC
Eddy 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**
Excavation Floor Soil Samples										
FS01	06/10/2025	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	170
FS02	06/10/2025	2	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	168
FS03	06/10/2025	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	167
FS04	06/10/2025	2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	167
FS05	06/10/2025	2	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	162
FS06	06/10/2025	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	149
FS07	06/10/2025	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	204
FS08	06/10/2025	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	99.2
FS09	06/13/2025	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	307
FS10	06/20/2025	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	99.3
FS11	06/13/2025	2	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	129
FS12	06/13/2025	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	121
FS13	06/20/2025	1	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	100
FS14	06/20/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	113
FS15	06/20/2025	1	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	117
FS16	06/20/2025	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	113
FS17	06/20/2025	1	<0.00199	<0.00398	<49.7	67.8	<49.7	67.8	67.8	318
FS18	06/20/2025	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	137
FS19	06/20/2025	1	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	181
FS20	06/20/2025	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	178
Excavation Sidewall Soil Samples										
SW01	06/10/2025	0 - 2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	115
SW02	06/10/2025	0 - 2	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	206
SW03	06/13/2025	0 - 2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	186
SW04	06/13/2025	0 - 1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	388

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Atticus State Com #521H
COG Operating, LLC
Eddy 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**
SW05	06/13/2025	0 - 1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	576
SW06	06/13/2025	0 - 1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	319
SW07	06/13/2025	0 - 2	<0.00201	<0.00402	<50.0	68.4	<50.0	68.4	68.4	190

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 indicates sample has been excavated.

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APPENDIX A

Referenced Well Records

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04371 POD1	SW	SW	SE	26	25S	27E	579368.8	3551272.6	

*** UTM location was derived from PLSS - see Help**

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHNNOWN.GENER				
Drill Start Date:	2019-10-17	**Drill Finish Date:**	2019-10-17	**Plug Date:**	2019-10-17
Log File Date:	2019-11-04	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	100	**Depth Water:**	69

Water Bearing Stratifications:

Top	Bottom	Description
5	100	Other/Unknown

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APPENDIX B

Photographic Log

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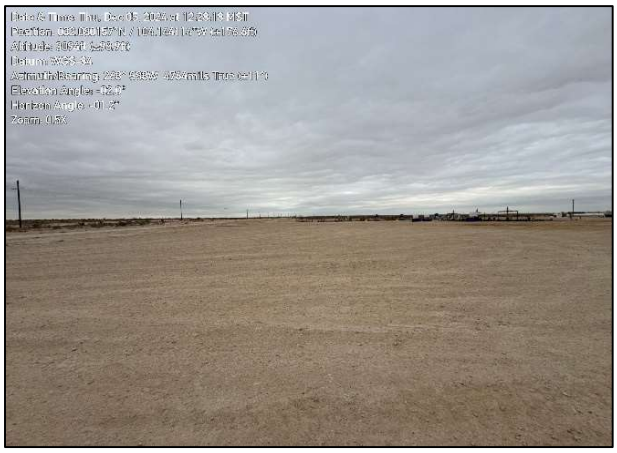
Photographic Log
COG Operating, LLC
Atticus State Com #521H
Incident Number NAPP2403637444



Photograph: 1 Date: 12/5/2024
Description: Initial assessment activities
View: Southwest

Photograph: 2 Date: 12/5/2024
Description: Initial assessment activities
View: Northeast

Photograph: 3 Date: 12/19/2024
Description: Delineation activities
View: Southeast

Photograph: 4 Date: 12/19/2024
Description: Delineation activities
View: Southeast

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APPENDIX C

Lithologic Soil Sampling Logs

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	Sample Name: PH01	Date: 12/19/2024
	Site Name: Atticus State Com #521H	
	Incident Number: NAPP2403637444	
	Job Number: 03D2024321	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TG	Method: Backhoe
Coordinates: 32.0795241, -104.1435910	Hole Diameter: 2'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N			0	CCHE	CALICHE, white, large clasts, poorly graded, no stain, no odor.
D	240.8	0.4	N			1	CCHE	CALICHE, same as above (SAA), more sand
D	241	0.1	N	PH01	2	2	SP	SAND, red, some clasts, poorly graded, no stain, no odor.
D	201	0.4	N	PH01	3	3	SP	SAND, SAA
D	<168	0.1	N	PH01	4	4	SP	SAND, SAA, less clasts

Total Depth @ 4 FEET BGS

ENSOLUM

	Sample Name: PH02	Date: 12/19/2024
	Site Name: Atticus State Com #521H	
	Incident Number: NAPP2403637444	
	Job Number: 03D2024321	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TG	Method: Backhoe
Coordinates: 32.0794401, -104.1436344	Hole Diameter: 2'	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N			0	CCHE	CALICHE, white, large clasts, poorly graded, no stain, no odor.
D	241	0.3	N	PH02	1	1	CCHE	CALICHE, same as above (SAA), more sand
D	<168	0.1	N	PH02	2	2	SP	SAND, red, some clasts, poorly graded, no stain, no odor.
D	<168	0.3	N			3	SP	SAND, SAA
D	<168	0.1	N	PH02	4	4	SP	SAND, SAA, less clasts

Total Depth @ 4 FEET BGS

ENSOLUM

	Sample Name: PH03	Date: 12/19/2024
	Site Name: Atticus State Com #521H	
	Incident Number: NAPP2403637444	
	Job Number: 03D2024321	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: TG	Method: Backhoe
Coordinates: 32.0794444, -104.1435606	Hole Diameter: 2'	Total Depth: 3'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N			0	CCHE	CALICHE, white, large clasts, poorly graded, no stain, no odor.
D	280	0.1	N	PH03	1	1	CCHE	CALICHE, same as above (SAA), more sand
D	<168	0.2	N	PH03	2	2	SP	SAND, red, some clasts, poorly graded, no stain, no odor.
D	<168	0.3	N	PH03	3	3	SP	SAND, SAA

Total Depth @ 3 FEET BGS

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APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/6/2024 2:58:55 PM

JOB DESCRIPTION

Atticus State Com #54
Eddy County

JOB NUMBER

880-51849-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

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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12/6/2024 2:58:55 PM

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

Client: Ensolum
Project/Site: Atticus State Com #54

Laboratory Job ID: 880-51849-1
SDG: Eddy County

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 880-51849-1
Project/Site: Atticus State Com #54 SDG: Eddy County

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.
F2	MS/MSD RPD 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 Job ID: 880-51849-1
Project: Atticus State Com #54

Job ID: 880-51849-1 Eurofins Midland

Job Narrative
880-51849-1

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 12/5/2024 4:56 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (880-51849-1), SS02 (880-51849-2), SS03 (880-51849-3), SS04 (880-51849-4), SS05 (880-51849-5), SS06 (880-51849-6), SS07 (880-51849-7), SS08 (880-51849-8) and SS09 (880-51849-9).

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 880-97199 and analytical batch 880-97226 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.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-97215 and analytical batch 880-97228 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was 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 880-97201 and analytical batch 880-97213 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.

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 880-51849-1
Date Collected: 12/05/24 11:12
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/06/24 08:10*	*12/06/24 11:55*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*12/06/24 08:10*	*12/06/24 11:55*	*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			12/06/24 11:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1340**		49.9		mg/Kg			12/06/24 09:54	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		12/05/24 16:25	12/06/24 09:54	1
Diesel Range Organics (Over C10-C28)	**1340**	**F1**	49.9		mg/Kg		12/05/24 16:25	12/06/24 09:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*12/05/24 16:25*	*12/06/24 09:54*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/05/24 16:25*	*12/06/24 09:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**436**		10.0		mg/Kg			12/06/24 09:42	1

Client Sample ID: SS02

Lab Sample ID: 880-51849-2
Date Collected: 12/05/24 11:16
Matrix: Solid
Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 12:16	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/06/24 08:10	12/06/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS02

Lab Sample ID: 880-51849-2
Date Collected: 12/05/24 11:16
Matrix: Solid
Date Received: 12/05/24 16:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/06/24 12:16	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			12/06/24 10:41	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		12/05/24 16:25	12/06/24 10:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 10:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*12/05/24 16:25*	*12/06/24 10:41*	*1*
o-Terphenyl	*86*		*70 - 130*	*12/05/24 16:25*	*12/06/24 10:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**922**		10.1		mg/Kg			12/06/24 09:47	1

Client Sample ID: SS03

Lab Sample ID: 880-51849-3
Date Collected: 12/05/24 11:20
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 12:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 12:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 12:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/24 08:10	12/06/24 12:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 12:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/24 08:10	12/06/24 12:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:36*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:36*	*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			12/06/24 12:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**622**		49.9		mg/Kg			12/06/24 10:58	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		12/05/24 16:25	12/06/24 10:58	1
Diesel Range Organics (Over C10-C28)	**622**		49.9		mg/Kg		12/05/24 16:25	12/06/24 10:58	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS03

Lab Sample ID: 880-51849-3
Matrix: Solid
Date Collected: 12/05/24 11:20
Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/05/24 16:25	12/06/24 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*12/05/24 16:25*	*12/06/24 10:58*	*1*
o-Terphenyl	*84*		*70 - 130*	*12/05/24 16:25*	*12/06/24 10:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**777**		10.1		mg/Kg			12/06/24 10:03	1

Client Sample ID: SS04

Lab Sample ID: 880-51849-4
Matrix: Solid
Date Collected: 12/05/24 11:24
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 12:57	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 12:57	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 12:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 12:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 12:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:57*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/06/24 08:10*	*12/06/24 12:57*	*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			12/06/24 12:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**762**		49.8		mg/Kg			12/06/24 11:14	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	49.8		mg/Kg		12/05/24 16:25	12/06/24 11:14	1
Diesel Range Organics (Over C10-C28)	**762**		49.8		mg/Kg		12/05/24 16:25	12/06/24 11:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/05/24 16:25	12/06/24 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/05/24 16:25*	*12/06/24 11:14*	*1*
o-Terphenyl	*87*		*70 - 130*	*12/05/24 16:25*	*12/06/24 11:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**858**		9.96		mg/Kg			12/06/24 10:08	1

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS05

Lab Sample ID: 880-51849-5
Date Collected: 12/05/24 11:28
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 13:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/06/24 08:10	12/06/24 13:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/06/24 08:10	12/06/24 13:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/06/24 08:10	12/06/24 13:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/06/24 08:10	12/06/24 13:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/06/24 08:10	12/06/24 13:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:17*	*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			12/06/24 13:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**928**		50.0		mg/Kg			12/06/24 09:54	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		12/06/24 08:21	12/06/24 09:54	1
Diesel Range Organics (Over C10-C28)	**928**	**F1 F2**	50.0		mg/Kg		12/06/24 08:21	12/06/24 09:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/24 08:21	12/06/24 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/06/24 08:21*	*12/06/24 09:54*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/06/24 08:21*	*12/06/24 09:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**544**		9.92		mg/Kg			12/06/24 10:14	1

Client Sample ID: SS06

Lab Sample ID: 880-51849-6
Date Collected: 12/05/24 11:31
Matrix: Solid
Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/06/24 08:10	12/06/24 13:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/06/24 08:10	12/06/24 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:38*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS06

Lab Sample ID: 880-51849-6
Date Collected: 12/05/24 11:31
Matrix: Solid
Date Received: 12/05/24 16:56

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/06/24 13:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**949**		49.9		mg/Kg			12/06/24 10:41	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		12/06/24 08:21	12/06/24 10:41	1
Diesel Range Organics (Over C10-C28)	**949**		49.9		mg/Kg		12/06/24 08:21	12/06/24 10:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/24 08:21	12/06/24 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*12/06/24 08:21*	*12/06/24 10:41*	*1*
o-Terphenyl	*101*		*70 - 130*	*12/06/24 08:21*	*12/06/24 10:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**698**		10.0		mg/Kg			12/06/24 10:19	1

Client Sample ID: SS07

Lab Sample ID: 880-51849-7
Date Collected: 12/05/24 11:36
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 13:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 13:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 13:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 13:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 13:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:58*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/06/24 08:10*	*12/06/24 13:58*	*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			12/06/24 13:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**277**		49.8		mg/Kg			12/06/24 10:58	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	49.8		mg/Kg		12/06/24 08:21	12/06/24 10:58	1
Diesel Range Organics (Over C10-C28)	**277**		49.8		mg/Kg		12/06/24 08:21	12/06/24 10:58	1

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS07

Lab Sample ID: 880-51849-7
Date Collected: 12/05/24 11:36
Matrix: Solid
Date Received: 12/05/24 16:56

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/06/24 08:21	12/06/24 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/06/24 08:21*	*12/06/24 10:58*	*1*
o-Terphenyl	*95*		*70 - 130*	*12/06/24 08:21*	*12/06/24 10:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2110**		99.2		mg/Kg			12/06/24 10:24	10

Client Sample ID: SS08

Lab Sample ID: 880-51849-8
Date Collected: 12/05/24 11:40
Matrix: Solid
Date Received: 12/05/24 16:56

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		12/06/24 08:10	12/06/24 14:18	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 14:18	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 14:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/06/24 08:10	12/06/24 14:18	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/06/24 08:10	12/06/24 14:18	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/06/24 08:10	12/06/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*12/06/24 08:10*	*12/06/24 14:18*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/06/24 08:10*	*12/06/24 14:18*	*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			12/06/24 14:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**292**		49.9		mg/Kg			12/06/24 11:14	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		12/06/24 08:21	12/06/24 11:14	1
Diesel Range Organics (Over C10-C28)	**292**		49.9		mg/Kg		12/06/24 08:21	12/06/24 11:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/06/24 08:21	12/06/24 11:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*12/06/24 08:21*	*12/06/24 11:14*	*1*
o-Terphenyl	*96*		*70 - 130*	*12/06/24 08:21*	*12/06/24 11:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3070**	**F1**	101		mg/Kg			12/06/24 10:29	10

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS09

Date Collected: 12/05/24 11:44
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-9

Matrix: Solid

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		12/06/24 08:10	12/06/24 14:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 14:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 14:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 14:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 14:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/06/24 08:10	12/06/24 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*12/06/24 08:10*	*12/06/24 14:39*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/06/24 08:10*	*12/06/24 14:39*	*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			12/06/24 14:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**727**		49.7		mg/Kg			12/06/24 11:31	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		12/06/24 08:21	12/06/24 11:31	1
Diesel Range Organics (Over C10-C28)	**727**		49.7		mg/Kg		12/06/24 08:21	12/06/24 11:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		12/06/24 08:21	12/06/24 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*12/06/24 08:21*	*12/06/24 11:31*	*1*
o-Terphenyl	*97*		*70 - 130*	*12/06/24 08:21*	*12/06/24 11:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1770**		101		mg/Kg			12/06/24 10:45	10

Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-51849-1	SS01	116	97
880-51849-1 MS	SS01	107	97
880-51849-1 MSD	SS01	109	98
880-51849-2	SS02	120	94
880-51849-3	SS03	116	94
880-51849-4	SS04	125	96
880-51849-5	SS05	120	95
880-51849-6	SS06	118	95
880-51849-7	SS07	110	94
880-51849-8	SS08	120	96
880-51849-9	SS09	119	95
LCS 880-97212/1-A	Lab Control Sample	102	97
LCSD 880-97212/2-A	Lab Control Sample Dup	99	98
MB 880-97212/5-A	Method Blank	115	88

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-51849-1	SS01	94	86
880-51849-1 MS	SS01	97	85
880-51849-1 MSD	SS01	98	84
880-51849-2	SS02	108	86
880-51849-3	SS03	100	84
880-51849-4	SS04	104	87
880-51849-5	SS05	104	101
880-51849-5 MS	SS05	106	100
880-51849-5 MSD	SS05	105	99
880-51849-6	SS06	108	101
880-51849-7	SS07	104	95
880-51849-8	SS08	106	96
880-51849-9	SS09	101	97
LCS 880-97199/2-A	Lab Control Sample	114	102
LCS 880-97215/2-A	Lab Control Sample	98	98
LCSD 880-97199/3-A	Lab Control Sample Dup	106	97
LCSD 880-97215/3-A	Lab Control Sample Dup	107	110
MB 880-97199/1-A	Method Blank	96	77
MB 880-97215/1-A	Method Blank	104	98

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-97212/5-A
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97212

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/06/24 08:10	12/06/24 11:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/06/24 08:10	12/06/24 11:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*12/06/24 08:10*	*12/06/24 11:34*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*12/06/24 08:10*	*12/06/24 11:34*	*1*

Lab Sample ID: LCS 880-97212/1-A
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97212

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1054		mg/Kg		105	70 - 130		
Toluene			0.100	0.1021		mg/Kg		102	70 - 130		
Ethylbenzene			0.100	0.1064		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2135		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1101		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-97212/2-A
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97212

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1101		mg/Kg		110	70 - 130	4	35
Toluene			0.100	0.1059		mg/Kg		106	70 - 130	4	35
Ethylbenzene			0.100	0.1104		mg/Kg		110	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2209		mg/Kg		110	70 - 130	3	35
o-Xylene			0.100	0.1138		mg/Kg		114	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-51849-1 MS
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08554		mg/Kg		86	70 - 130		
Toluene	<0.00200	U	0.100	0.08240		mg/Kg		82	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: 880-51849-1 MS
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97212

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08598		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1703		mg/Kg		85	70 - 130
o-Xylene	<0.00200	U	0.100	0.08838		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-51849-1 MSD
Matrix: Solid
Analysis Batch: 97229

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97212

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	0.08935		mg/Kg		89	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.08873		mg/Kg		89	70 - 130	7	35
Ethylbenzene	<0.00200	U	0.100	0.08937		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1776		mg/Kg		89	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.09097		mg/Kg		91	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-97199/1-A
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97199

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		12/05/24 16:25	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/05/24 16:25	12/06/24 04:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*12/05/24 16:25*	*12/06/24 04:08*	*1*
o-Terphenyl	*77*		*70 - 130*	*12/05/24 16:25*	*12/06/24 04:08*	*1*

Lab Sample ID: LCS 880-97199/2-A
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97199

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1139		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1012		mg/Kg		101	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-97199/2-A
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97199

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-97199/3-A
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97199

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1120		mg/Kg		112	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	955.0		mg/Kg		95	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-51849-1 MS
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	864.9		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1340	F1	996	797.7	F1	mg/Kg		-54	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-51849-1 MSD
Matrix: Solid
Analysis Batch: 97226

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 97199

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	<49.9	U	996	878.3		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1340	F1	996	811.7	F1	mg/Kg		-53	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	84		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: MB 880-97215/1-A
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 97215

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		12/06/24 08:20	12/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/06/24 08:20	12/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/06/24 08:20	12/06/24 04:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*12/06/24 08:20*	*12/06/24 04:08*	*1*
o-Terphenyl	*98*		*70 - 130*	*12/06/24 08:20*	*12/06/24 04:08*	*1*

Lab Sample ID: LCS 880-97215/2-A
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 97215

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	927.5		mg/Kg		93	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	900.8		mg/Kg		90	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

Lab Sample ID: LCSD 880-97215/3-A
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 97215

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1095		mg/Kg		109	70 - 130	17	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 880-51849-5 MS
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: SS05
Prep Type: Total/NA
Prep Batch: 97215

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	899.8		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)	928	F1 F2	999	1567	F1	mg/Kg		64	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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

Lab Sample ID: 880-51849-5 MS
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: SS05
Prep Type: Total/NA
Prep Batch: 97215

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-51849-5 MSD
Matrix: Solid
Analysis Batch: 97228

Client Sample ID: SS05
Prep Type: Total/NA
Prep Batch: 97215

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	891.5		mg/Kg		89	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	928	F1 F2	999	852.2	F1 F2	mg/Kg		-8	70 - 130	59	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	99		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-97201/1-A
Matrix: Solid
Analysis Batch: 97213

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			12/06/24 09:00	1

Lab Sample ID: LCS 880-97201/2-A
Matrix: Solid
Analysis Batch: 97213

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	238.9		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-97201/3-A
Matrix: Solid
Analysis Batch: 97213

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	239.0		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-51849-8 MS
Matrix: Solid
Analysis Batch: 97213

Client Sample ID: SS08
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3070	F1	2520	5137	F1	mg/Kg		82	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-51849-8 MSD
Matrix: Solid
Analysis Batch: 97213

Client Sample ID: SS08
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3070	F1	2520	5150	F1	mg/Kg		82	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

GC VOA

Prep Batch: 97212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	5035	
880-51849-2	SS02	Total/NA	Solid	5035	
880-51849-3	SS03	Total/NA	Solid	5035	
880-51849-4	SS04	Total/NA	Solid	5035	
880-51849-5	SS05	Total/NA	Solid	5035	
880-51849-6	SS06	Total/NA	Solid	5035	
880-51849-7	SS07	Total/NA	Solid	5035	
880-51849-8	SS08	Total/NA	Solid	5035	
880-51849-9	SS09	Total/NA	Solid	5035	
MB 880-97212/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-97212/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-97212/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-51849-1 MS	SS01	Total/NA	Solid	5035	
880-51849-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 97229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8021B	97212
880-51849-2	SS02	Total/NA	Solid	8021B	97212
880-51849-3	SS03	Total/NA	Solid	8021B	97212
880-51849-4	SS04	Total/NA	Solid	8021B	97212
880-51849-5	SS05	Total/NA	Solid	8021B	97212
880-51849-6	SS06	Total/NA	Solid	8021B	97212
880-51849-7	SS07	Total/NA	Solid	8021B	97212
880-51849-8	SS08	Total/NA	Solid	8021B	97212
880-51849-9	SS09	Total/NA	Solid	8021B	97212
MB 880-97212/5-A	Method Blank	Total/NA	Solid	8021B	97212
LCS 880-97212/1-A	Lab Control Sample	Total/NA	Solid	8021B	97212
LCSD 880-97212/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	97212
880-51849-1 MS	SS01	Total/NA	Solid	8021B	97212
880-51849-1 MSD	SS01	Total/NA	Solid	8021B	97212

Analysis Batch: 97306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	Total BTEX	
880-51849-2	SS02	Total/NA	Solid	Total BTEX	
880-51849-3	SS03	Total/NA	Solid	Total BTEX	
880-51849-4	SS04	Total/NA	Solid	Total BTEX	
880-51849-5	SS05	Total/NA	Solid	Total BTEX	
880-51849-6	SS06	Total/NA	Solid	Total BTEX	
880-51849-7	SS07	Total/NA	Solid	Total BTEX	
880-51849-8	SS08	Total/NA	Solid	Total BTEX	
880-51849-9	SS09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 97199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8015NM Prep	
880-51849-2	SS02	Total/NA	Solid	8015NM Prep	
880-51849-3	SS03	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

GC Semi VOA (Continued)

Prep Batch: 97199 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-1 MS	SS01	Total/NA	Solid	8015NM Prep	
880-51849-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Prep Batch: 97215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-5	SS05	Total/NA	Solid	8015NM Prep	
880-51849-6	SS06	Total/NA	Solid	8015NM Prep	
880-51849-7	SS07	Total/NA	Solid	8015NM Prep	
880-51849-8	SS08	Total/NA	Solid	8015NM Prep	
880-51849-9	SS09	Total/NA	Solid	8015NM Prep	
MB 880-97215/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-97215/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-97215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51849-5 MS	SS05	Total/NA	Solid	8015NM Prep	
880-51849-5 MSD	SS05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 97226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8015B NM	97199
880-51849-2	SS02	Total/NA	Solid	8015B NM	97199
880-51849-3	SS03	Total/NA	Solid	8015B NM	97199
880-51849-4	SS04	Total/NA	Solid	8015B NM	97199
MB 880-97199/1-A	Method Blank	Total/NA	Solid	8015B NM	97199
LCS 880-97199/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97199
LCSD 880-97199/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97199
880-51849-1 MS	SS01	Total/NA	Solid	8015B NM	97199
880-51849-1 MSD	SS01	Total/NA	Solid	8015B NM	97199

Analysis Batch: 97228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-5	SS05	Total/NA	Solid	8015B NM	97215
880-51849-6	SS06	Total/NA	Solid	8015B NM	97215
880-51849-7	SS07	Total/NA	Solid	8015B NM	97215
880-51849-8	SS08	Total/NA	Solid	8015B NM	97215
880-51849-9	SS09	Total/NA	Solid	8015B NM	97215
MB 880-97215/1-A	Method Blank	Total/NA	Solid	8015B NM	97215
LCS 880-97215/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	97215
LCSD 880-97215/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	97215
880-51849-5 MS	SS05	Total/NA	Solid	8015B NM	97215
880-51849-5 MSD	SS05	Total/NA	Solid	8015B NM	97215

Analysis Batch: 97296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Total/NA	Solid	8015 NM	
880-51849-2	SS02	Total/NA	Solid	8015 NM	
880-51849-3	SS03	Total/NA	Solid	8015 NM	
880-51849-4	SS04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 97296 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-5	SS05	Total/NA	Solid	8015 NM	
880-51849-6	SS06	Total/NA	Solid	8015 NM	
880-51849-7	SS07	Total/NA	Solid	8015 NM	
880-51849-8	SS08	Total/NA	Solid	8015 NM	
880-51849-9	SS09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 97201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Soluble	Solid	DI Leach	
880-51849-2	SS02	Soluble	Solid	DI Leach	
880-51849-3	SS03	Soluble	Solid	DI Leach	
880-51849-4	SS04	Soluble	Solid	DI Leach	
880-51849-5	SS05	Soluble	Solid	DI Leach	
880-51849-6	SS06	Soluble	Solid	DI Leach	
880-51849-7	SS07	Soluble	Solid	DI Leach	
880-51849-8	SS08	Soluble	Solid	DI Leach	
880-51849-9	SS09	Soluble	Solid	DI Leach	
MB 880-97201/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-97201/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-97201/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51849-8 MS	SS08	Soluble	Solid	DI Leach	
880-51849-8 MSD	SS08	Soluble	Solid	DI Leach	

Analysis Batch: 97213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51849-1	SS01	Soluble	Solid	300.0	97201
880-51849-2	SS02	Soluble	Solid	300.0	97201
880-51849-3	SS03	Soluble	Solid	300.0	97201
880-51849-4	SS04	Soluble	Solid	300.0	97201
880-51849-5	SS05	Soluble	Solid	300.0	97201
880-51849-6	SS06	Soluble	Solid	300.0	97201
880-51849-7	SS07	Soluble	Solid	300.0	97201
880-51849-8	SS08	Soluble	Solid	300.0	97201
880-51849-9	SS09	Soluble	Solid	300.0	97201
MB 880-97201/1-A	Method Blank	Soluble	Solid	300.0	97201
LCS 880-97201/2-A	Lab Control Sample	Soluble	Solid	300.0	97201
LCSD 880-97201/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	97201
880-51849-8 MS	SS08	Soluble	Solid	300.0	97201
880-51849-8 MSD	SS08	Soluble	Solid	300.0	97201

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS01
Date Collected: 12/05/24 11:12
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 11:55
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 11:55
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 09:54
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 09:54
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 09:42

Client Sample ID: SS02
Date Collected: 12/05/24 11:16
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 12:16
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 12:16
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:41
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 10:41
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 09:47

Client Sample ID: SS03
Date Collected: 12/05/24 11:20
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 12:36
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 12:36
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:58
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 10:58
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:03

Client Sample ID: SS04
Date Collected: 12/05/24 11:24
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 12:57
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 12:57

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS04
Date Collected: 12/05/24 11:24
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 11:14
Total/NA	Prep	8015NM Prep			97199	EL	EET MID	12/05/24 16:25
Total/NA	Analysis	8015B NM		1	97226	TKC	EET MID	12/06/24 11:14
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:08

Client Sample ID: SS05
Date Collected: 12/05/24 11:28
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 13:17
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 13:17
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 09:54
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 09:54
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:14

Client Sample ID: SS06
Date Collected: 12/05/24 11:31
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 13:38
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 13:38
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:41
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 10:41
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		1	97213	CH	EET MID	12/06/24 10:19

Client Sample ID: SS07
Date Collected: 12/05/24 11:36
Date Received: 12/05/24 16:56

Lab Sample ID: 880-51849-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 13:58
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 13:58
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 10:58
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 10:58

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Client Sample ID: SS07

Lab Sample ID: 880-51849-7
Matrix: Solid
Date Collected: 12/05/24 11:36
Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		10	97213	CH	EET MID	12/06/24 10:24

Client Sample ID: SS08

Lab Sample ID: 880-51849-8
Matrix: Solid
Date Collected: 12/05/24 11:40
Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 14:18
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 14:18
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 11:14
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 11:14
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		10	97213	CH	EET MID	12/06/24 10:29

Client Sample ID: SS09

Lab Sample ID: 880-51849-9
Matrix: Solid
Date Collected: 12/05/24 11:44
Date Received: 12/05/24 16:56

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			97212	AA	EET MID	12/06/24 08:10
Total/NA	Analysis	8021B		1	97229	SM	EET MID	12/06/24 14:39
Total/NA	Analysis	Total BTEX		1	97306	SM	EET MID	12/06/24 14:39
Total/NA	Analysis	8015 NM		1	97296	SM	EET MID	12/06/24 11:31
Total/NA	Prep	8015NM Prep			97215	EL	EET MID	12/06/24 08:21
Total/NA	Analysis	8015B NM		1	97228	TKC	EET MID	12/06/24 11:31
Soluble	Leach	DI Leach			97201	SA	EET MID	12/05/24 17:03
Soluble	Analysis	300.0		10	97213	CH	EET MID	12/06/24 10:45

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

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: Atticus State Com #54

Job ID: 880-51849-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-51849-1	SS01	Solid	12/05/24 11:12	12/05/24 16:56
880-51849-2	SS02	Solid	12/05/24 11:16	12/05/24 16:56
880-51849-3	SS03	Solid	12/05/24 11:20	12/05/24 16:56
880-51849-4	SS04	Solid	12/05/24 11:24	12/05/24 16:56
880-51849-5	SS05	Solid	12/05/24 11:28	12/05/24 16:56
880-51849-6	SS06	Solid	12/05/24 11:31	12/05/24 16:56
880-51849-7	SS07	Solid	12/05/24 11:36	12/05/24 16:56
880-51849-8	SS08	Solid	12/05/24 11:40	12/05/24 16:56
880-51849-9	SS09	Solid	12/05/24 11:44	12/05/24 16:56

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-51849-1
SDG Number: Eddy County

Login Number: 51849
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/2/2025 3:59:53 PM

JOB DESCRIPTION

Atticus State Com #521
Eddy County

JOB NUMBER

880-52521-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

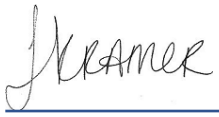
Eurofins Midland

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

Client: Ensolum
Project/Site: Atticus State Com #521

Laboratory Job ID: 880-52521-1
SDG: Eddy County

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
S1+	Surrogate recovery exceeds control limits, high biased.
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 Job ID: 880-52521-1
Project: Atticus State Com #521

Job ID: 880-52521-1 Eurofins Midland

Job Narrative
880-52521-1

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 12/19/2024 5:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -1.0°C.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98490 and analytical batch 880-98345 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.

Diesel Range Organics
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98957 and analytical batch 880-99133 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.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03 (880-52521-13), (LCS 880-98957/2-A), (LCSD 880-98957/3-A), (MB 880-98957/1-A), (880-52521-A-13-D MS) and (880-52521-A-13-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-98956 and analytical batch 880-99130 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was 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 880-98552 and analytical batch 880-98577 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.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-98896 and analytical batch 880-98925 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.

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS01

Lab Sample ID: 880-52521-1
Matrix: Solid
Date Collected: 12/19/24 10:40
Date Received: 12/19/24 17:35
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 F1	0.00199		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
Toluene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
Ethylbenzene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		12/20/24 14:34	12/21/24 08:41	1
Xylenes, Total	<0.00398	U F1	0.00398		mg/Kg		12/20/24 14:34	12/21/24 08:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:41*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:41*	*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			12/21/24 08:41	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			01/01/25 00:15	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		12/27/24 13:36	01/01/25 00:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 00:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*12/27/24 13:36*	*01/01/25 00:15*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/27/24 13:36*	*01/01/25 00:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**617**		9.96		mg/Kg			12/24/24 18:01	1

Client Sample ID: SS02

Lab Sample ID: 880-52521-2
Matrix: Solid
Date Collected: 12/19/24 10:15
Date Received: 12/19/24 17:35
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 09:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 09:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:01*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS02

Lab Sample ID: 880-52521-2
Matrix: Solid
Date Collected: 12/19/24 10:15
Date Received: 12/19/24 17:35
Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/21/24 09:01	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			01/01/25 00:36	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		12/27/24 13:36	01/01/25 00:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 00:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/27/24 13:36	01/01/25 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*102*		*70 - 130*	*12/27/24 13:36*	*01/01/25 00:36*	*1*
o-Terphenyl	*112*		*70 - 130*	*12/27/24 13:36*	*01/01/25 00:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**328**		10.0	mg/Kg			12/24/24 18:06	1

Client Sample ID: SS03

Lab Sample ID: 880-52521-3
Matrix: Solid
Date Collected: 12/19/24 10:20
Date Received: 12/19/24 17:35
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		12/20/24 14:34	12/21/24 09:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 09:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 09:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:21*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/21/24 09:21	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			01/01/25 01:17	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS03

Lab Sample ID: 880-52521-3
Matrix: Solid
Date Collected: 12/19/24 10:20
Date Received: 12/19/24 17:35
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	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 01:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 01:17	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 01:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:17*	*1*
o-Terphenyl	*118*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**407**		9.98		mg/Kg			12/24/24 18:12	1

Client Sample ID: SS04

Lab Sample ID: 880-52521-4
Matrix: Solid
Date Collected: 12/19/24 10:55
Date Received: 12/19/24 17:35
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		12/20/24 14:34	12/21/24 09:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 09:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 09:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 09:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 09:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 09:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:42*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/20/24 14:34*	*12/21/24 09:42*	*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			12/21/24 09:42	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			01/01/25 01:38	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		12/27/24 13:36	01/01/25 01:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 01:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 01:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:38*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS04

Lab Sample ID: 880-52521-4
Matrix: Solid
Date Collected: 12/19/24 10:55
Date Received: 12/19/24 17:35
Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	802		50.0		mg/Kg			12/27/24 13:32	5

Client Sample ID: PH01

Lab Sample ID: 880-52521-5
Matrix: Solid
Date Collected: 12/19/24 11:28
Date Received: 12/19/24 17:35
Sample Depth: 2'

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		12/20/24 14:34	12/21/24 10:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 10:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 10:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:34	12/21/24 10:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 10:03	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:34	12/21/24 10:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:03*	*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			12/21/24 10:03	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			01/01/25 01:58	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	49.8		mg/Kg		12/27/24 13:36	01/01/25 01:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	01/01/25 01:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	01/01/25 01:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:58*	*1*
o-Terphenyl	*107*		*70 - 130*	*12/27/24 13:36*	*01/01/25 01:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	253		9.94		mg/Kg			12/24/24 18:18	1

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH01

Lab Sample ID: 880-52521-6
Matrix: Solid
Date Collected: 12/19/24 11:42
Date Received: 12/19/24 17:35
Sample Depth: 3'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 10:23	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:23*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/21/24 10:23	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			01/01/25 02:18	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		12/27/24 13:36	01/01/25 02:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 02:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:18*	*1*
o-Terphenyl	*103*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**261**		10.0		mg/Kg			12/24/24 18:24	1

Client Sample ID: PH01

Lab Sample ID: 880-52521-7
Matrix: Solid
Date Collected: 12/19/24 11:46
Date Received: 12/19/24 17:35
Sample Depth: 4'

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		12/20/24 14:34	12/21/24 10:44	1
Toluene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 10:44	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 10:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		12/20/24 14:34	12/21/24 10:44	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		12/20/24 14:34	12/21/24 10:44	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		12/20/24 14:34	12/21/24 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:44*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH01

Lab Sample ID: 880-52521-7
Matrix: Solid
Date Collected: 12/19/24 11:46
Date Received: 12/19/24 17:35
Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/20/24 14:34*	*12/21/24 10:44*	*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			12/21/24 10:44	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			01/01/25 02:38	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		12/27/24 13:36	01/01/25 02:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 02:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 02:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*96*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:38*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**106**		9.92	mg/Kg			12/24/24 18:30	1

Client Sample ID: PH02

Lab Sample ID: 880-52521-8
Matrix: Solid
Date Collected: 12/19/24 12:00
Date Received: 12/19/24 17:35
Sample Depth: 1'

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		12/20/24 14:34	12/21/24 11:04	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 11:04	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/20/24 14:34	12/21/24 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:04*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/21/24 11:04	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			01/01/25 02:59	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH02

Lab Sample ID: 880-52521-8
Matrix: Solid
Date Collected: 12/19/24 12:00
Date Received: 12/19/24 17:35
Sample Depth: 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		12/27/24 13:36	01/01/25 02:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 02:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:59*	*1*
o-Terphenyl	*100*		*70 - 130*	*12/27/24 13:36*	*01/01/25 02:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**272**	**F1**	10.0		mg/Kg			12/23/24 13:23	1

Client Sample ID: PH02

Lab Sample ID: 880-52521-9
Matrix: Solid
Date Collected: 12/19/24 12:05
Date Received: 12/19/24 17:35
Sample Depth: 2'

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		12/20/24 14:34	12/21/24 11:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 11:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 11:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 11:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		12/20/24 14:34	12/21/24 11:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		12/20/24 14:34	12/21/24 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:25*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:25*	*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			12/21/24 11:25	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			01/01/25 03:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 03:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 03:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	01/01/25 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*12/27/24 13:36*	*01/01/25 03:20*	*1*
o-Terphenyl	*111*		*70 - 130*	*12/27/24 13:36*	*01/01/25 03:20*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH02
Lab Sample ID: 880-52521-9
Date Collected: 12/19/24 12:05
Matrix: Solid
Date Received: 12/19/24 17:35
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		9.96		mg/Kg			12/23/24 13:44	1

Client Sample ID: PH02
Lab Sample ID: 880-52521-10
Date Collected: 12/19/24 12:10
Matrix: Solid
Date Received: 12/19/24 17:35
Sample Depth: 4'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		12/20/24 14:34	12/21/24 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:46*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*12/20/24 14:34*	*12/21/24 11:46*	*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			12/21/24 11:46	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			01/01/25 03:40	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		12/27/24 13:36	01/01/25 03:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 03:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		12/27/24 13:36	01/01/25 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*12/27/24 13:36*	*01/01/25 03:40*	*1*
o-Terphenyl	*104*		*70 - 130*	*12/27/24 13:36*	*01/01/25 03:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.8		9.98		mg/Kg			12/23/24 13:51	1

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03

Lab Sample ID: 880-52521-11
Matrix: Solid
Date Collected: 12/19/24 12:28
Date Received: 12/19/24 17:35
Sample Depth: 1'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		12/20/24 14:34	12/21/24 13:09	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		12/20/24 14:34	12/21/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:09*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			12/21/24 13:09	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			01/01/25 04:00	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	49.8		mg/Kg		12/27/24 13:36	01/01/25 04:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	01/01/25 04:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		12/27/24 13:36	01/01/25 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*12/27/24 13:36*	*01/01/25 04:00*	*1*
o-Terphenyl	*100*		*70 - 130*	*12/27/24 13:36*	*01/01/25 04:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		9.90		mg/Kg			12/23/24 13:57	1

Client Sample ID: PH03

Lab Sample ID: 880-52521-12
Matrix: Solid
Date Collected: 12/19/24 12:32
Date Received: 12/19/24 17:35
Sample Depth: 2'

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		12/20/24 14:34	12/21/24 13:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 13:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 13:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		12/20/24 14:34	12/21/24 13:30	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 13:30	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		12/20/24 14:34	12/21/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:30*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03
Date Collected: 12/19/24 12:32
Date Received: 12/19/24 17:35
Sample Depth: 2'

Lab Sample ID: 880-52521-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/21/24 13:30	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			01/01/25 04:21	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		12/27/24 13:36	01/01/25 04:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 04:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/27/24 13:36	01/01/25 04:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*12/27/24 13:36*	*01/01/25 04:21*	*1*
o-Terphenyl	*105*		*70 - 130*	*12/27/24 13:36*	*01/01/25 04:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**155**		9.94	mg/Kg			12/23/24 14:05	1

Client Sample ID: PH03
Date Collected: 12/19/24 12:36
Date Received: 12/19/24 17:35
Sample Depth: 3'

Lab Sample ID: 880-52521-13
Matrix: Solid

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		12/20/24 14:34	12/21/24 13:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/20/24 14:34	12/21/24 13:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		12/20/24 14:34	12/21/24 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:51*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*12/20/24 14:34*	*12/21/24 13:51*	*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			12/21/24 13:51	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			12/31/24 12:05	1

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Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03

Date Collected: 12/19/24 12:36
Date Received: 12/19/24 17:35
Sample Depth: 3'

Lab Sample ID: 880-52521-13

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	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 12:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		12/27/24 13:39	12/31/24 12:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*12/27/24 13:39*	*12/31/24 12:05*	*1*
o-Terphenyl	*173*	*S1+*	*70 - 130*	*12/27/24 13:39*	*12/31/24 12:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		10.1		mg/Kg			12/23/24 14:28	1

Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-52521-1	SS01	92	87
880-52521-1 MS	SS01	88	100
880-52521-1 MSD	SS01	88	102
880-52521-2	SS02	79	92
880-52521-3	SS03	79	93
880-52521-4	SS04	87	91
880-52521-5	PH01	87	94
880-52521-6	PH01	86	94
880-52521-7	PH01	82	90
880-52521-8	PH02	87	96
880-52521-9	PH02	89	93
880-52521-10	PH02	90	90
880-52521-11	PH03	87	95
880-52521-12	PH03	89	94
880-52521-13	PH03	87	95
LCS 880-98490/1-A	Lab Control Sample	109	118
LCSD 880-98490/2-A	Lab Control Sample Dup	117	107
MB 880-98440/5-A	Method Blank	78	94
MB 880-98490/5-A	Method Blank	81	91

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-52521-1	SS01	94	105
880-52521-2	SS02	102	112
880-52521-3	SS03	109	118
880-52521-4	SS04	97	107
880-52521-5	PH01	98	107
880-52521-6	PH01	97	103
880-52521-7	PH01	96	104
880-52521-8	PH02	91	100
880-52521-9	PH02	100	111
880-52521-10	PH02	95	104
880-52521-11	PH03	92	100
880-52521-12	PH03	94	105
880-52521-13	PH03	161 S1+	173 S1+
880-52521-13 MS	PH03	151 S1+	151 S1+
880-52521-13 MSD	PH03	160 S1+	155 S1+
LCS 880-98956/2-A	Lab Control Sample	97	100
LCS 880-98957/2-A	Lab Control Sample	149 S1+	138 S1+
LCSD 880-98956/3-A	Lab Control Sample Dup	104	107
LCSD 880-98957/3-A	Lab Control Sample Dup	138 S1+	132 S1+
MB 880-98956/1-A	Method Blank	115	130

Surrogate Summary

Client: Ensolum Job ID: 880-52521-1
Project/Site: Atticus State Com #521 SDG: Eddy County

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
MB 880-98957/1-A	Method Blank	185 S1+	200 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-98440/5-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98440

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 09:23	12/20/24 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 09:23	12/20/24 21:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*12/20/24 09:23*	*12/20/24 21:40*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*12/20/24 09:23*	*12/20/24 21:40*	*1*

Lab Sample ID: MB 880-98490/5-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98490

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		12/20/24 14:34	12/21/24 08:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		12/20/24 14:34	12/21/24 08:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:19*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*12/20/24 14:34*	*12/21/24 08:19*	*1*

Lab Sample ID: LCS 880-98490/1-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98490

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1160		mg/Kg		116	70 - 130		
Toluene			0.100	0.1140		mg/Kg		114	70 - 130		
Ethylbenzene			0.100	0.1187		mg/Kg		119	70 - 130		
m-Xylene & p-Xylene			0.200	0.2351		mg/Kg		118	70 - 130		
o-Xylene			0.100	0.1149		mg/Kg		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*

Lab Sample ID: LCSD 880-98490/2-A
Matrix: Solid
Analysis Batch: 98345

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98490

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1195		mg/Kg		120	70 - 130	3	35

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QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-98490/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98490**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1153		mg/Kg		115	70 - 130	1	35
Ethylbenzene			0.100	0.1280		mg/Kg		128	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2529		mg/Kg		126	70 - 130	7	35
o-Xylene			0.100	0.1237		mg/Kg		124	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-52521-1 MS — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U F1	0.0996	0.05584	F1	mg/Kg		56	70 - 130
Toluene	<0.00199	U F1	0.0996	0.05398	F1	mg/Kg		54	70 - 130
Ethylbenzene	<0.00199	U F1	0.0996	0.04661	F1	mg/Kg		47	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.09456	F1	mg/Kg		47	70 - 130
o-Xylene	<0.00199	U F1	0.0996	0.04909	F1	mg/Kg		49	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-52521-1 MSD — **Client Sample ID: SS01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 98345 — **Prep Batch: 98490**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.07129		mg/Kg		71	70 - 130	24	35
Toluene	<0.00199	U F1	0.101	0.06693	F1	mg/Kg		66	70 - 130	21	35
Ethylbenzene	<0.00199	U F1	0.101	0.05772	F1	mg/Kg		57	70 - 130	21	35
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1169	F1	mg/Kg		58	70 - 130	21	35
o-Xylene	<0.00199	U F1	0.101	0.05872	F1	mg/Kg		58	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

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

Lab Sample ID: MB 880-98956/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 99130 — **Prep Batch: 98956**

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		12/27/24 13:36	12/31/24 19:49	1

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: MB 880-98956/1-A
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98956

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 19:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:36	12/31/24 19:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*12/27/24 13:36*	*12/31/24 19:49*	*1*
o-Terphenyl	*130*		*70 - 130*	*12/27/24 13:36*	*12/31/24 19:49*	*1*

Lab Sample ID: LCS 880-98956/2-A
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98956

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1073		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1076		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: LCSD 880-98956/3-A
Matrix: Solid
Analysis Batch: 99130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98956

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	956.5		mg/Kg		96	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	981.6		mg/Kg		98	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: MB 880-98957/1-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98957

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		12/27/24 13:39	12/31/24 09:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 09:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		12/27/24 13:39	12/31/24 09:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*185*	*S1+*	*70 - 130*	*12/27/24 13:39*	*12/31/24 09:51*	*1*

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: MB 880-98957/1-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 98957

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	200	S1+	70 - 130	12/27/24 13:39	12/31/24 09:51	1

Lab Sample ID: LCS 880-98957/2-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 98957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1122		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1280		mg/Kg		128	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	149	S1+	70 - 130
o-Terphenyl	138	S1+	70 - 130

Lab Sample ID: LCSD 880-98957/3-A
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 98957

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1103		mg/Kg		110	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	132	S1+	70 - 130

Lab Sample ID: 880-52521-13 MS
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: PH03
Prep Type: Total/NA
Prep Batch: 98957

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1077		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	1208		mg/Kg		119	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	151	S1+	70 - 130
o-Terphenyl	151	S1+	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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

Lab Sample ID: 880-52521-13 MSD
Matrix: Solid
Analysis Batch: 99133

Client Sample ID: PH03
Prep Type: Total/NA
Prep Batch: 98957

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	1174		mg/Kg		114	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	1350	F1	mg/Kg		133	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*160*	*S1+*	*70 - 130*
o-Terphenyl	*155*	*S1+*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-98551/1-A
Matrix: Solid
Analysis Batch: 98576

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			12/24/24 15:39	1

Lab Sample ID: LCS 880-98551/2-A
Matrix: Solid
Analysis Batch: 98576

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	264.8		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-98551/3-A
Matrix: Solid
Analysis Batch: 98576

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	265.1		mg/Kg		106	90 - 110	0	20

Lab Sample ID: MB 880-98552/1-A
Matrix: Solid
Analysis Batch: 98577

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			12/23/24 13:03	1

Lab Sample ID: LCS 880-98552/2-A
Matrix: Solid
Analysis Batch: 98577

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	238.9		mg/Kg		96	90 - 110

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-98552/3-A
Matrix: Solid
Analysis Batch: 98577

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	246.7		mg/Kg		99	90 - 110	3	20

Lab Sample ID: 880-52521-8 MS
Matrix: Solid
Analysis Batch: 98577

Client Sample ID: PH02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	272	F1	251	569.8	F1	mg/Kg		119	90 - 110		

Lab Sample ID: 880-52521-8 MSD
Matrix: Solid
Analysis Batch: 98577

Client Sample ID: PH02
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	272	F1	251	550.3	F1	mg/Kg		111	90 - 110	3	20

Lab Sample ID: MB 880-98896/1-A
Matrix: Solid
Analysis Batch: 98925

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			12/27/24 10:47	1

Lab Sample ID: LCS 880-98896/2-A
Matrix: Solid
Analysis Batch: 98925

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	254.9		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-98896/3-A
Matrix: Solid
Analysis Batch: 98925

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	255.7		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

GC VOA

Analysis Batch: 98345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8021B	98490
880-52521-2	SS02	Total/NA	Solid	8021B	98490
880-52521-3	SS03	Total/NA	Solid	8021B	98490
880-52521-4	SS04	Total/NA	Solid	8021B	98490
880-52521-5	PH01	Total/NA	Solid	8021B	98490
880-52521-6	PH01	Total/NA	Solid	8021B	98490
880-52521-7	PH01	Total/NA	Solid	8021B	98490
880-52521-8	PH02	Total/NA	Solid	8021B	98490
880-52521-9	PH02	Total/NA	Solid	8021B	98490
880-52521-10	PH02	Total/NA	Solid	8021B	98490
880-52521-11	PH03	Total/NA	Solid	8021B	98490
880-52521-12	PH03	Total/NA	Solid	8021B	98490
880-52521-13	PH03	Total/NA	Solid	8021B	98490
MB 880-98440/5-A	Method Blank	Total/NA	Solid	8021B	98440
MB 880-98490/5-A	Method Blank	Total/NA	Solid	8021B	98490
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	8021B	98490
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	98490
880-52521-1 MS	SS01	Total/NA	Solid	8021B	98490
880-52521-1 MSD	SS01	Total/NA	Solid	8021B	98490

Prep Batch: 98440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-98440/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 98490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	5035	
880-52521-2	SS02	Total/NA	Solid	5035	
880-52521-3	SS03	Total/NA	Solid	5035	
880-52521-4	SS04	Total/NA	Solid	5035	
880-52521-5	PH01	Total/NA	Solid	5035	
880-52521-6	PH01	Total/NA	Solid	5035	
880-52521-7	PH01	Total/NA	Solid	5035	
880-52521-8	PH02	Total/NA	Solid	5035	
880-52521-9	PH02	Total/NA	Solid	5035	
880-52521-10	PH02	Total/NA	Solid	5035	
880-52521-11	PH03	Total/NA	Solid	5035	
880-52521-12	PH03	Total/NA	Solid	5035	
880-52521-13	PH03	Total/NA	Solid	5035	
MB 880-98490/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-98490/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-98490/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-52521-1 MS	SS01	Total/NA	Solid	5035	
880-52521-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 98751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	Total BTEX	
880-52521-2	SS02	Total/NA	Solid	Total BTEX	
880-52521-3	SS03	Total/NA	Solid	Total BTEX	
880-52521-4	SS04	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 98751 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-5	PH01	Total/NA	Solid	Total BTEX	
880-52521-6	PH01	Total/NA	Solid	Total BTEX	
880-52521-7	PH01	Total/NA	Solid	Total BTEX	
880-52521-8	PH02	Total/NA	Solid	Total BTEX	
880-52521-9	PH02	Total/NA	Solid	Total BTEX	
880-52521-10	PH02	Total/NA	Solid	Total BTEX	
880-52521-11	PH03	Total/NA	Solid	Total BTEX	
880-52521-12	PH03	Total/NA	Solid	Total BTEX	
880-52521-13	PH03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 98956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8015NM Prep	
880-52521-2	SS02	Total/NA	Solid	8015NM Prep	
880-52521-3	SS03	Total/NA	Solid	8015NM Prep	
880-52521-4	SS04	Total/NA	Solid	8015NM Prep	
880-52521-5	PH01	Total/NA	Solid	8015NM Prep	
880-52521-6	PH01	Total/NA	Solid	8015NM Prep	
880-52521-7	PH01	Total/NA	Solid	8015NM Prep	
880-52521-8	PH02	Total/NA	Solid	8015NM Prep	
880-52521-9	PH02	Total/NA	Solid	8015NM Prep	
880-52521-10	PH02	Total/NA	Solid	8015NM Prep	
880-52521-11	PH03	Total/NA	Solid	8015NM Prep	
880-52521-12	PH03	Total/NA	Solid	8015NM Prep	
MB 880-98956/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98956/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 98957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-13	PH03	Total/NA	Solid	8015NM Prep	
MB 880-98957/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-98957/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-98957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-52521-13 MS	PH03	Total/NA	Solid	8015NM Prep	
880-52521-13 MSD	PH03	Total/NA	Solid	8015NM Prep	

Analysis Batch: 99130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8015B NM	98956
880-52521-2	SS02	Total/NA	Solid	8015B NM	98956
880-52521-3	SS03	Total/NA	Solid	8015B NM	98956
880-52521-4	SS04	Total/NA	Solid	8015B NM	98956
880-52521-5	PH01	Total/NA	Solid	8015B NM	98956
880-52521-6	PH01	Total/NA	Solid	8015B NM	98956
880-52521-7	PH01	Total/NA	Solid	8015B NM	98956
880-52521-8	PH02	Total/NA	Solid	8015B NM	98956
880-52521-9	PH02	Total/NA	Solid	8015B NM	98956
880-52521-10	PH02	Total/NA	Solid	8015B NM	98956

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 99130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-11	PH03	Total/NA	Solid	8015B NM	98956
880-52521-12	PH03	Total/NA	Solid	8015B NM	98956
MB 880-98956/1-A	Method Blank	Total/NA	Solid	8015B NM	98956
LCS 880-98956/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98956
LCSD 880-98956/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98956

Analysis Batch: 99133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-13	PH03	Total/NA	Solid	8015B NM	98957
MB 880-98957/1-A	Method Blank	Total/NA	Solid	8015B NM	98957
LCS 880-98957/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	98957
LCSD 880-98957/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	98957
880-52521-13 MS	PH03	Total/NA	Solid	8015B NM	98957
880-52521-13 MSD	PH03	Total/NA	Solid	8015B NM	98957

Analysis Batch: 99225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Total/NA	Solid	8015 NM	
880-52521-2	SS02	Total/NA	Solid	8015 NM	
880-52521-3	SS03	Total/NA	Solid	8015 NM	
880-52521-4	SS04	Total/NA	Solid	8015 NM	
880-52521-5	PH01	Total/NA	Solid	8015 NM	
880-52521-6	PH01	Total/NA	Solid	8015 NM	
880-52521-7	PH01	Total/NA	Solid	8015 NM	
880-52521-8	PH02	Total/NA	Solid	8015 NM	
880-52521-9	PH02	Total/NA	Solid	8015 NM	
880-52521-10	PH02	Total/NA	Solid	8015 NM	
880-52521-11	PH03	Total/NA	Solid	8015 NM	
880-52521-12	PH03	Total/NA	Solid	8015 NM	
880-52521-13	PH03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 98551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Soluble	Solid	DI Leach	
880-52521-2	SS02	Soluble	Solid	DI Leach	
880-52521-3	SS03	Soluble	Solid	DI Leach	
880-52521-5	PH01	Soluble	Solid	DI Leach	
880-52521-6	PH01	Soluble	Solid	DI Leach	
880-52521-7	PH01	Soluble	Solid	DI Leach	
MB 880-98551/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Leach Batch: 98552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-8	PH02	Soluble	Solid	DI Leach	
880-52521-9	PH02	Soluble	Solid	DI Leach	
880-52521-10	PH02	Soluble	Solid	DI Leach	
880-52521-11	PH03	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 98552 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-12	PH03	Soluble	Solid	DI Leach	
880-52521-13	PH03	Soluble	Solid	DI Leach	
MB 880-98552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-52521-8 MS	PH02	Soluble	Solid	DI Leach	
880-52521-8 MSD	PH02	Soluble	Solid	DI Leach	

Analysis Batch: 98576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-1	SS01	Soluble	Solid	300.0	98551
880-52521-2	SS02	Soluble	Solid	300.0	98551
880-52521-3	SS03	Soluble	Solid	300.0	98551
880-52521-5	PH01	Soluble	Solid	300.0	98551
880-52521-6	PH01	Soluble	Solid	300.0	98551
880-52521-7	PH01	Soluble	Solid	300.0	98551
MB 880-98551/1-A	Method Blank	Soluble	Solid	300.0	98551
LCS 880-98551/2-A	Lab Control Sample	Soluble	Solid	300.0	98551
LCSD 880-98551/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98551

Analysis Batch: 98577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-8	PH02	Soluble	Solid	300.0	98552
880-52521-9	PH02	Soluble	Solid	300.0	98552
880-52521-10	PH02	Soluble	Solid	300.0	98552
880-52521-11	PH03	Soluble	Solid	300.0	98552
880-52521-12	PH03	Soluble	Solid	300.0	98552
880-52521-13	PH03	Soluble	Solid	300.0	98552
MB 880-98552/1-A	Method Blank	Soluble	Solid	300.0	98552
LCS 880-98552/2-A	Lab Control Sample	Soluble	Solid	300.0	98552
LCSD 880-98552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98552
880-52521-8 MS	PH02	Soluble	Solid	300.0	98552
880-52521-8 MSD	PH02	Soluble	Solid	300.0	98552

Leach Batch: 98896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-4	SS04	Soluble	Solid	DI Leach	
MB 880-98896/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 98925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-52521-4	SS04	Soluble	Solid	300.0	98896
MB 880-98896/1-A	Method Blank	Soluble	Solid	300.0	98896
LCS 880-98896/2-A	Lab Control Sample	Soluble	Solid	300.0	98896
LCSD 880-98896/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	98896

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS01
Date Collected: 12/19/24 10:40
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 08:41
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 08:41
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 00:15
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 00:15
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:01

Client Sample ID: SS02
Date Collected: 12/19/24 10:15
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 09:01
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 09:01
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 00:36
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 00:36
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:06

Client Sample ID: SS03
Date Collected: 12/19/24 10:20
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 09:21
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 09:21
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 01:17
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 01:17
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:12

Client Sample ID: SS04
Date Collected: 12/19/24 10:55
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 09:42
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 09:42

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: SS04
Date Collected: 12/19/24 10:55
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 01:38
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 01:38
Soluble	Leach	DI Leach			98896	CH	EET MID	12/26/24 17:34
Soluble	Analysis	300.0		5	98925	CH	EET MID	12/27/24 13:32

Client Sample ID: PH01
Date Collected: 12/19/24 11:28
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 10:03
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 10:03
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 01:58
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 01:58
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:18

Client Sample ID: PH01
Date Collected: 12/19/24 11:42
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 10:23
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 10:23
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 02:18
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 02:18
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:24

Client Sample ID: PH01
Date Collected: 12/19/24 11:46
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 10:44
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 10:44
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 02:38
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 02:38

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH01
Date Collected: 12/19/24 11:46
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			98551	CH	EET MID	12/21/24 14:11
Soluble	Analysis	300.0		1	98576	CH	EET MID	12/24/24 18:30

Client Sample ID: PH02
Date Collected: 12/19/24 12:00
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 11:04
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 11:04
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 02:59
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 02:59
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:23

Client Sample ID: PH02
Date Collected: 12/19/24 12:05
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 11:25
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 11:25
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 03:20
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 03:20
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:44

Client Sample ID: PH02
Date Collected: 12/19/24 12:10
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 11:46
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 11:46
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 03:40
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 03:40
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:51

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Client Sample ID: PH03
Date Collected: 12/19/24 12:28
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 13:09
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 13:09
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 04:00
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 04:00
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 13:57

Client Sample ID: PH03
Date Collected: 12/19/24 12:32
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 13:30
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 13:30
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	01/01/25 04:21
Total/NA	Prep	8015NM Prep			98956	EL	EET MID	12/27/24 13:36
Total/NA	Analysis	8015B NM		1	99130	SM	EET MID	01/01/25 04:21
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 14:05

Client Sample ID: PH03
Date Collected: 12/19/24 12:36
Date Received: 12/19/24 17:35

Lab Sample ID: 880-52521-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			98490	MNR	EET MID	12/20/24 14:34
Total/NA	Analysis	8021B		1	98345	MNR	EET MID	12/21/24 13:51
Total/NA	Analysis	Total BTEX		1	98751	SM	EET MID	12/21/24 13:51
Total/NA	Analysis	8015 NM		1	99225	AJ	EET MID	12/31/24 12:05
Total/NA	Prep	8015NM Prep			98957	EL	EET MID	12/27/24 13:39
Total/NA	Analysis	8015B NM		1	99133	AJ	EET MID	12/31/24 12:05
Soluble	Leach	DI Leach			98552	CH	EET MID	12/21/24 14:13
Soluble	Analysis	300.0		1	98577	CH	EET MID	12/23/24 14:28

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-52521-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-52521-1	SS01	Solid	12/19/24 10:40	12/19/24 17:35	0.5'
880-52521-2	SS02	Solid	12/19/24 10:15	12/19/24 17:35	0.5'
880-52521-3	SS03	Solid	12/19/24 10:20	12/19/24 17:35	0.5'
880-52521-4	SS04	Solid	12/19/24 10:55	12/19/24 17:35	0.5'
880-52521-5	PH01	Solid	12/19/24 11:28	12/19/24 17:35	2'
880-52521-6	PH01	Solid	12/19/24 11:42	12/19/24 17:35	3'
880-52521-7	PH01	Solid	12/19/24 11:46	12/19/24 17:35	4'
880-52521-8	PH02	Solid	12/19/24 12:00	12/19/24 17:35	1'
880-52521-9	PH02	Solid	12/19/24 12:05	12/19/24 17:35	2'
880-52521-10	PH02	Solid	12/19/24 12:10	12/19/24 17:35	4'
880-52521-11	PH03	Solid	12/19/24 12:28	12/19/24 17:35	1'
880-52521-12	PH03	Solid	12/19/24 12:32	12/19/24 17:35	2'
880-52521-13	PH03	Solid	12/19/24 12:36	12/19/24 17:35	3'

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Chain of Custody

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

Work O

880-52521 Chain of Custody

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Project Manager:	Georgiana McSwane	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	254-459-2338	Email:	gmcswane@ensolum.com / hgreen@ensolum

Work Order Comments

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

Project Name:	Atticus State Com #521	Turn Around	
Project Number:	03D2024321	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Tabitha Guadian	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D2024321		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	0.9
Total Containers:		Corrected Temperature:	-1.0

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021	TPH 8015	Chloride 300	Sample Comments
SS01	S	12/9/24	1040	0.5'	G	1		X	X	X	
SS02	S		1015	0.5'				X	X	X	
SS03	S		1020	0.5'				X	X	X	
SS04	S		1055	0.5'				X	X	X	
PH01	S		1128	2'				X	X	X	
PH01	S		1142	3'				HOLD			
PH01	S		1146	4'				X	X	X	
PH02	S		1200	1'				X	X	X	
PH02	S		1205	2'				X	X	X	
PH02	S		1210	4'				X	X	X	

NFE 12/19/24 TKG

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/19 1735	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: 521

www.xenco.com Page 2 of 2

Project Manager:	Georgiana McSwane	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N. Marienfeld St Ste 406	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	254-459-2338	Email:	gmcswane@ensolum.com / hgreen@ensolum

Work Order Comments

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

Project Name:	Atticus State Com #521	Turn Around	Pres. Code
Project Number:	03D2024321	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Tabitha Guardian	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D2024321		

SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No
Samples Received Intact:	Yes No	Thermometer ID:
Cooler Custody Seals:	Yes No N/A	Correction Factor:
Sample Custody Seals:	Yes No N/A	Temperature Reading:
Total Containers:		Corrected Temperature:

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX 8021	TPH 8015	Chloride 300	Sample Comments
PH03	S	12/19/24	1228	1'	G	1	X	X	X	
PH03	S		1232	2'		1	X	X	X	
PH03	S		1236	3'		1	X	X	X	
NFE					12/19/24				TNG	

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12/19 1735	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-52521-1
SDG Number: Eddy County

Login Number: 52521
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Atticus State Com #521
Eddy County

JOB NUMBER

880-53645-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

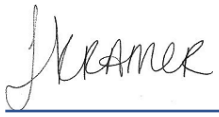
Eurofins Midland

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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Revision 1

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

Client: Ensolum
Project/Site: Atticus State Com #521

Laboratory Job ID: 880-53645-1
SDG: Eddy County

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 880-53645-1
Project: Atticus State Com #521

Job ID: 880-53645-1 Eurofins Midland

Job Narrative
880-53645-1

REVISION

The report being provided is a revision of the original report sent on 1/27/2025. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

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 1/24/2025 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C.

Receipt Exceptions
The following samples ere received and analyzed from an unpreserved bulk soil jar: SS01 (880-53645-1) and SS04 (880-53645-2).

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 880-101238 and analytical batch 880-101251 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.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101340 and analytical batch 880-101350 was outside the upper control limits.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SS04 (880-53645-2), (890-7605-A-10-A), (890-7605-A-10-B MS) and (890-7605-A-10-C MSD). Percent recoveries are based on the amount spiked.

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

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

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Client Sample ID: SS01
Date Collected: 01/24/25 12:20
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-1
Matrix: Solid

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		01/27/25 08:36	01/27/25 13:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 13:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 13:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/27/25 08:36	01/27/25 13:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 13:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/27/25 08:36	01/27/25 13:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/27/25 08:36*	*01/27/25 13:04*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/27/25 08:36*	*01/27/25 13:04*	*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			01/27/25 13:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**76.6**		49.8		mg/Kg			01/28/25 13:02	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	49.8		mg/Kg		01/28/25 07:52	01/28/25 13:02	1
Diesel Range Organics (Over C10-C28)	**76.6**		49.8		mg/Kg		01/28/25 07:52	01/28/25 13:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/28/25 07:52	01/28/25 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*01/28/25 07:52*	*01/28/25 13:02*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/28/25 07:52*	*01/28/25 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.2**		10.1		mg/Kg			01/27/25 12:04	1

Client Sample ID: SS04
Date Collected: 01/24/25 12:24
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/27/25 08:36	01/27/25 13:25	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/27/25 08:36	01/27/25 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/27/25 08:36*	*01/27/25 13:25*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/27/25 08:36*	*01/27/25 13:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Client Sample ID: SS04

Date Collected: 01/24/25 12:24
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/27/25 13:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**72.6**		49.6		mg/Kg			01/28/25 13:02	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	<49.6	U	49.6		mg/Kg		01/28/25 08:12	01/28/25 13:02	1
Diesel Range Organics (Over C10-C28)	**72.6**		49.6		mg/Kg		01/28/25 08:12	01/28/25 13:02	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/28/25 08:12	01/28/25 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*167*	*S1+*	*70 - 130*	*01/28/25 08:12*	*01/28/25 13:02*	*1*
o-Terphenyl	*146*	*S1+*	*70 - 130*	*01/28/25 08:12*	*01/28/25 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**32.1**		9.94		mg/Kg			01/27/25 12:10	1

Surrogate Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-53645-1	SS01	104	98
880-53645-2	SS04	108	98
LCS 880-101248/1-A	Lab Control Sample	102	99
LCSD 880-101248/2-A	Lab Control Sample Dup	99	100
MB 880-101248/5-A	Method Blank	101	95

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-53645-1	SS01	87	79
880-53645-1 MS	SS01	80	81
880-53645-1 MSD	SS01	91	78
880-53645-2	SS04	167 S1+	146 S1+
LCS 880-101238/2-A	Lab Control Sample	87	91
LCS 880-101336/2-A	Lab Control Sample	87	90
LCS 880-101340/2-A	Lab Control Sample	122	112
LCSD 880-101238/3-A	Lab Control Sample Dup	91	94
LCSD 880-101336/3-A	Lab Control Sample Dup	87	92
LCSD 880-101340/3-A	Lab Control Sample Dup	124	114
MB 880-101238/1-A	Method Blank	105	100
MB 880-101336/1-A	Method Blank	115	107
MB 880-101340/1-A	Method Blank	164 S1+	135 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101248/5-A
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101248

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/25 08:36	01/27/25 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/27/25 08:36	01/27/25 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/27/25 08:36*	*01/27/25 11:21*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/27/25 08:36*	*01/27/25 11:21*	*1*

Lab Sample ID: LCS 880-101248/1-A
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101248

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08463		mg/Kg		85	70 - 130		
Toluene			0.100	0.08720		mg/Kg		87	70 - 130		
Ethylbenzene			0.100	0.09055		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1707		mg/Kg		85	70 - 130		
o-Xylene			0.100	0.08683		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-101248/2-A
Matrix: Solid
Analysis Batch: 101242

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101248

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08861		mg/Kg		89	70 - 130	5	35
Toluene			0.100	0.09188		mg/Kg		92	70 - 130	5	35
Ethylbenzene			0.100	0.09454		mg/Kg		95	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1780		mg/Kg		89	70 - 130	4	35
o-Xylene			0.100	0.09050		mg/Kg		90	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: MB 880-101238/1-A
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101238

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		01/27/25 08:12	01/27/25 08:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/27/25 08:12	01/27/25 08:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/27/25 08:12	01/27/25 08:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*01/27/25 08:12*	*01/27/25 08:51*	*1*
o-Terphenyl	*100*		*70 - 130*	*01/27/25 08:12*	*01/27/25 08:51*	*1*

Lab Sample ID: LCS 880-101238/2-A
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101238

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	811.4		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	809.4		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*91*		*70 - 130*

Lab Sample ID: LCSD 880-101238/3-A
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101238

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	830.0		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	838.8		mg/Kg		84	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 880-53645-1 MS
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 101238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	749.4		mg/Kg		75	70 - 130		
Diesel Range Organics (Over C10-C28)	103	F1	997	789.9	F1	mg/Kg		69	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: 880-53645-1 MS
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 101238

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*80*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: 880-53645-1 MSD
Matrix: Solid
Analysis Batch: 101251

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 101238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	729.1		mg/Kg		73	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	103	F1	997	751.6	F1	mg/Kg		65	70 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: MB 880-101336/1-A
Matrix: Solid
Analysis Batch: 101348

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101336

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		01/28/25 07:52	01/28/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/28/25 07:52	01/28/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/28/25 07:52	01/28/25 01:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*01/28/25 07:52*	*01/28/25 01:04*	*1*
o-Terphenyl	*107*		*70 - 130*	*01/28/25 07:52*	*01/28/25 01:04*	*1*

Lab Sample ID: LCS 880-101336/2-A
Matrix: Solid
Analysis Batch: 101348

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101336

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	813.2		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	806.4		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-101336/3-A
Matrix: Solid
Analysis Batch: 101348

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101336

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	785.9		mg/Kg		79	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	826.4		mg/Kg		83	70 - 130	2	20

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

Lab Sample ID: MB 880-101340/1-A
Matrix: Solid
Analysis Batch: 101350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101340

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		01/28/25 08:12	01/28/25 01:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/28/25 08:12	01/28/25 01:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/28/25 08:12	01/28/25 01:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*01/28/25 08:12*	*01/28/25 01:04*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*01/28/25 08:12*	*01/28/25 01:04*	*1*

Lab Sample ID: LCS 880-101340/2-A
Matrix: Solid
Analysis Batch: 101350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101340

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1076		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1063		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*122*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-101340/3-A
Matrix: Solid
Analysis Batch: 101350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101340

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1111		mg/Kg		111	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1070		mg/Kg		107	70 - 130	1	20

QC Sample Results

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-101340/3-A
Matrix: Solid
Analysis Batch: 101350

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101340

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*114*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101235/1-A
Matrix: Solid
Analysis Batch: 101246

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			01/27/25 09:12	1

Lab Sample ID: LCS 880-101235/2-A
Matrix: Solid
Analysis Batch: 101246

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.2		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-101235/3-A
Matrix: Solid
Analysis Batch: 101246

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	237.5		mg/Kg		95	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

GC VOA

Analysis Batch: 101242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8021B	101248
880-53645-2	SS04	Total/NA	Solid	8021B	101248
MB 880-101248/5-A	Method Blank	Total/NA	Solid	8021B	101248
LCS 880-101248/1-A	Lab Control Sample	Total/NA	Solid	8021B	101248
LCSD 880-101248/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101248

Prep Batch: 101248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	5035	
880-53645-2	SS04	Total/NA	Solid	5035	
MB 880-101248/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-101248/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-101248/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 101320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	Total BTEX	
880-53645-2	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101238/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101238/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101238/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53645-1 MS	SS01	Total/NA	Solid	8015NM Prep	
880-53645-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-101238/1-A	Method Blank	Total/NA	Solid	8015B NM	101238
LCS 880-101238/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101238
LCSD 880-101238/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101238
880-53645-1 MS	SS01	Total/NA	Solid	8015B NM	101238
880-53645-1 MSD	SS01	Total/NA	Solid	8015B NM	101238

Analysis Batch: 101306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8015 NM	
880-53645-2	SS04	Total/NA	Solid	8015 NM	

Prep Batch: 101336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-101336/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101336/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 101340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-2	SS04	Total/NA	Solid	8015NM Prep	
MB 880-101340/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101340/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101340/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Total/NA	Solid	8015B NM	101336
MB 880-101336/1-A	Method Blank	Total/NA	Solid	8015B NM	101336
LCS 880-101336/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101336
LCSD 880-101336/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101336

Analysis Batch: 101350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-2	SS04	Total/NA	Solid	8015B NM	101340
MB 880-101340/1-A	Method Blank	Total/NA	Solid	8015B NM	101340
LCS 880-101340/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101340
LCSD 880-101340/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101340

HPLC/IC

Leach Batch: 101235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Soluble	Solid	DI Leach	
880-53645-2	SS04	Soluble	Solid	DI Leach	
MB 880-101235/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101235/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101235/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 101246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53645-1	SS01	Soluble	Solid	300.0	101235
880-53645-2	SS04	Soluble	Solid	300.0	101235
MB 880-101235/1-A	Method Blank	Soluble	Solid	300.0	101235
LCS 880-101235/2-A	Lab Control Sample	Soluble	Solid	300.0	101235
LCSD 880-101235/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101235

Lab Chronicle

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Client Sample ID: SS01
Date Collected: 01/24/25 12:20
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101248	AA	EET MID	01/27/25 08:36
Total/NA	Analysis	8021B		1	101242	MNR	EET MID	01/27/25 13:04
Total/NA	Analysis	Total BTEX		1	101320	SM	EET MID	01/27/25 13:04
Total/NA	Analysis	8015 NM		1	101306	SM	EET MID	01/28/25 13:02
Total/NA	Prep	8015NM Prep			101336	EL	EET MID	01/28/25 07:52
Total/NA	Analysis	8015B NM		1	101348	TKC	EET MID	01/28/25 13:02
Soluble	Leach	DI Leach			101235	SA	EET MID	01/27/25 07:54
Soluble	Analysis	300.0		1	101246	CH	EET MID	01/27/25 12:04

Client Sample ID: SS04
Date Collected: 01/24/25 12:24
Date Received: 01/24/25 16:45

Lab Sample ID: 880-53645-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101248	AA	EET MID	01/27/25 08:36
Total/NA	Analysis	8021B		1	101242	MNR	EET MID	01/27/25 13:25
Total/NA	Analysis	Total BTEX		1	101320	SM	EET MID	01/27/25 13:25
Total/NA	Analysis	8015 NM		1	101306	SM	EET MID	01/28/25 13:02
Total/NA	Prep	8015NM Prep			101340	EL	EET MID	01/28/25 08:12
Total/NA	Analysis	8015B NM		1	101350	TKC	EET MID	01/28/25 13:02
Soluble	Leach	DI Leach			101235	SA	EET MID	01/27/25 07:54
Soluble	Analysis	300.0		1	101246	CH	EET MID	01/27/25 12:10

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

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: Atticus State Com #521

Job ID: 880-53645-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53645-1	SS01	Solid	01/24/25 12:20	01/24/25 16:45
880-53645-2	SS04	Solid	01/24/25 12:24	01/24/25 16:45

eurofins | Environment Testing Xenco

Chain of Custody

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

Work Or 880-53645 Chain of Custody

www.xenco.com Page 1 of 1

Dan Moir

Project Manager:	Hadlie Green/Georgiana McSwain	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld st Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com/gmcswain@ensolum.

Work Order Comments

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

Project Name:	Atticus State Com #521	Turn Around	☐ Routine ☑ Rush
Project Number:	03D2024321	Due Date:	24hr
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Tabitha Guadian		
PO #:	03D2024321		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR6
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.5
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.5
Total Containers:		Corrected Temperature:	2.0

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chlorides 300
SS01	S	11/24/25	1220	0.5	G	1		X	X	X
SS04	S	11/24/25	1224	0.5	G	1		X	X	X

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

NFE 11/24/25 TAT

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 SiO_2 Na Sr Tl 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 Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11/24/25 1645	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-53645-1
SDG Number: Eddy County

Login Number: 53645
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

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

General Information
Phone: (505) 629-6116

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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 480538

QUESTIONS

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 480538
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2403637444**
Incident Name	**NAPP2403637444 ATTICUS STATE COM #521 @ 30-015-49982**
Incident Type	**Fire**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-49982] ATTICUS STATE COM #521H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Atticus State Com #521
Date Release Discovered	02/04/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	Cause: | | Other (Specify) | Released: 0 (Unknown Released Amount) | Recovered: 0 | Lost: 0 .
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 (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 480538
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**More info needed to determine if this will be treated as a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(2) an unauthorized release of a volume that:** **(a) results in a fire or is the result of a fire;** **(c) may with reasonable probability endanger public health.**
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: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 03/25/2025

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QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 480538
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
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.		
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)	3070
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1340
GRO+DRO	(EPA SW-846 Method 8015M)	1340
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		12/05/2024
On what date will (or did) the final sampling or liner inspection occur		04/25/2025
On what date will (or was) the remediation complete(d)		04/25/2025
What is the estimated surface area (in square feet) that will be reclaimed		3560
What is the estimated volume (in cubic yards) that will be reclaimed		250
What is the estimated surface area (in square feet) that will be remediated		3560
What is the estimated volume (in cubic yards) that will be remediated		250
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 480538
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	LEA LAND LANDFILL [fEEM0112342028]
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	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/01/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 480538
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 480538
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**475917**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**06/20/2025**
What was the (estimated) number of samples that were to be gathered	**7**
What was the sampling surface area in square feet	**3560**

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3646
What was the total volume (cubic yards) remediated	270
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	3646
What was the total volume (in cubic yards) reclaimed	270
Summarize any additional remediation activities not included by answers (above)	Excavation of impacted soil

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 07/01/2025

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QUESTIONS (continued)

Operator: CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	OGRID: 217817
	Action Number: 480538
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Operator:	OGRID:
CONOCOPHILLIPS COMPANY 600 W. Illinois Avenue Midland, TX 79701	217817
	Action Number: 480538
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2403637444 ATTICUS STATE COM #521, thank you. This Remediation Closure Report is approved.	8/11/2025