



September 14, 2023

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
Brinninstool Unit 003H
Incident Number NAPP2315635182
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at Brinninstool Unit 003H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacted soil resulting from a release produced water at the Site. Based on field observations, excavation activities, and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting no further action for Incident Number NAPP2315635182.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 20, Township 23 South, Range 33 East, in Lea County, New Mexico (32.2973°, -103.5859°) and is associated with oil and gas exploration and production operations on private land owned by Hughes Properties, LLC.

On May 29, 2023, damage to a transfer line resulted in a release of approximately 2.3059 barrels (bbls) of produced water onto the lease road and into the surrounding pasture. No released fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 5, 2023. The release was assigned Incident Number NAPP2315635182.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized for applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321746103352301, located approximately 0.26 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 470 feet bgs and a total depth of 550 feet bgs. Ground surface elevation at the

groundwater well location is 3,699 feet above mean sea level (amsl), which is approximately 12 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 2,700 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, or church. The site is greater than 300 feet from a wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area and lease road that were impacted by the release, per 19.15.29.13 D (1) NMAC for the top 4 feet of areas that will be immediately reclaimed following remediation.

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On June 21, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Four assessment soil samples (SS01 through SS04) were collected around the release extent at an approximate depth of 0.5 feet bgs to confirm the lateral extent of the release. Eight assessment soil samples (SS05 through SS12) were collected within the release extent at an approximate depth of 0.5 feet bgs to assess for the presence or absence 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 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 visit and a photographic log is included as Appendix B.

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

Laboratory analytical results for assessment soil samples SS01 through SS04, collected around the release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for assessment samples SS05 through SS09, collected within the pasture release extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical



results for assessment samples SS10 through SS12, collected within the pasture and lease road release extent, indicated TPH and/or chloride concentrations exceeded the reclamation requirements. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix C.

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On July 7, 2023, Ensolum personnel returned to the Site to complete vertical assessment activities within the release extent. Boreholes were advanced via hand-auger at the locations of assessment soil samples SS05 through SS09, to further confirm the absence of impacted soil. One discrete delineation soil sample was collected at each location (SS05A through SS09A) from a depth of 1-foot bgs. The delineation soil samples were collected, handled, and analyzed following the same procedures as described above. The boreholes were backfilled with soil removed. The delineation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

Laboratory analytical results for delineation soil samples SS05A through SS09A collected at 1-foot bgs, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the absence of impacted soil in these areas. Based on the laboratory analytical results for assessment soil samples SS10 through SS12, excavation activities were warranted in the lease road and pasture area near the release point. Laboratory analytical results are summarized in Table 1 and the complete analytical reports are included as Appendix C.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On July 7, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil in the area around assessment samples SS10 through SS12. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 1-foot to 2.5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor 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 FS10 were collected from the floor of the excavation at depths ranging from 1-foot to 2.5 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2.5 feet bgs. The soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS10 and sidewall samples SW01 and SW02 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

The final excavation area measured approximately 1,405 square feet. A total of approximately 120 cubic yards of impacted soil was removed, transported, and properly disposed of at Northern Delaware Basin Landfill in Jal, New Mexico.

COG Operating, LLC
Closure Request
Brinninstool Unit 003H

Page 4

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the May 29, 2023, release of produced water. Laboratory analytical results for the excavation soil samples indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Additionally, the release was laterally and vertically delineated to the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required.

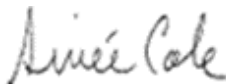
COG believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2315635182. NMOCD notifications are included in Appendix D and the Final C-141 is included in Appendix E.

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



Aimee Cole
Senior Managing Scientist

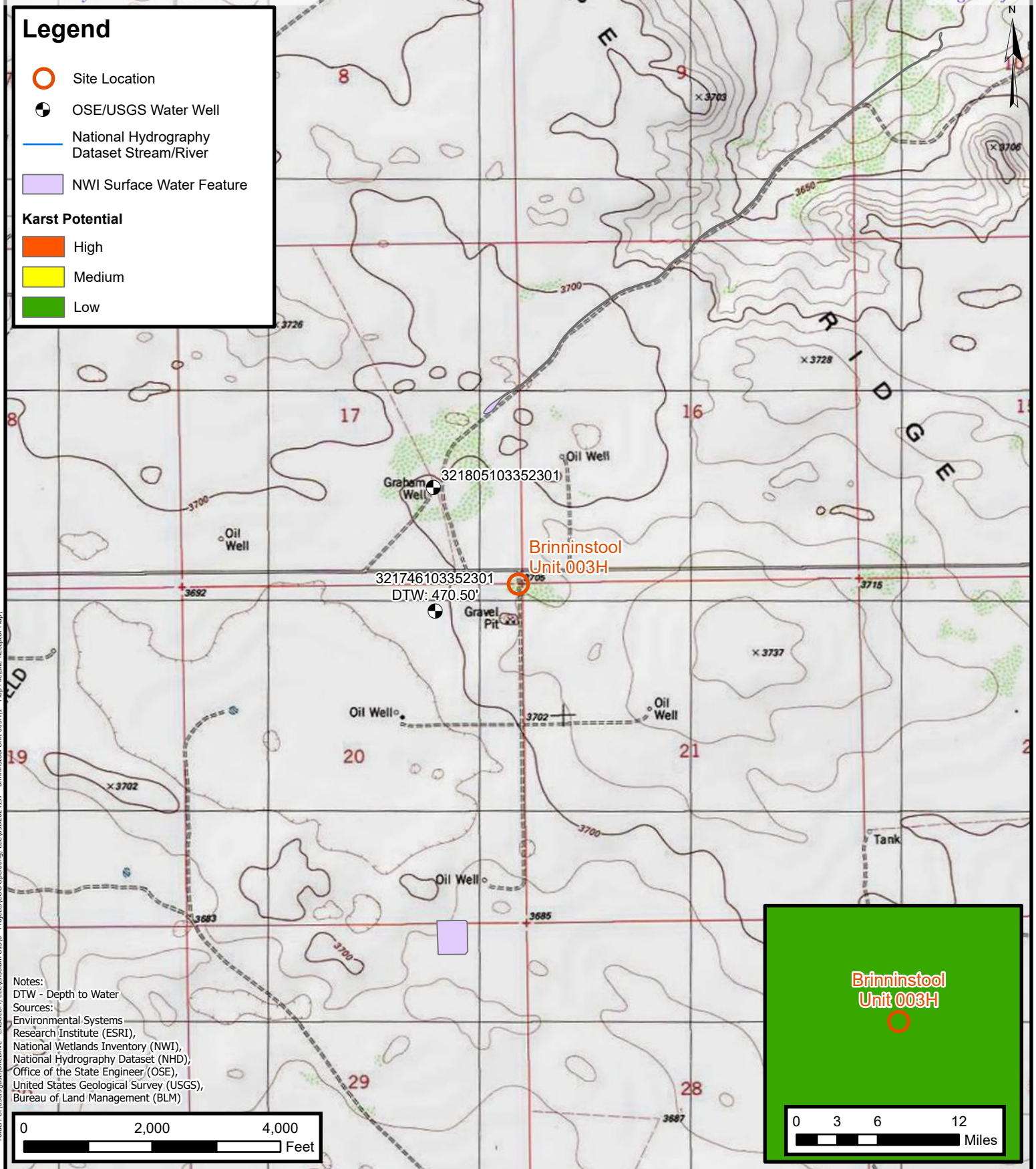
cc: Jacob Laird, COG Operating, LLC
Hughes Properties, LLC

Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Notifications
Appendix E	Final C-141



FIGURES



Site Receptor Map

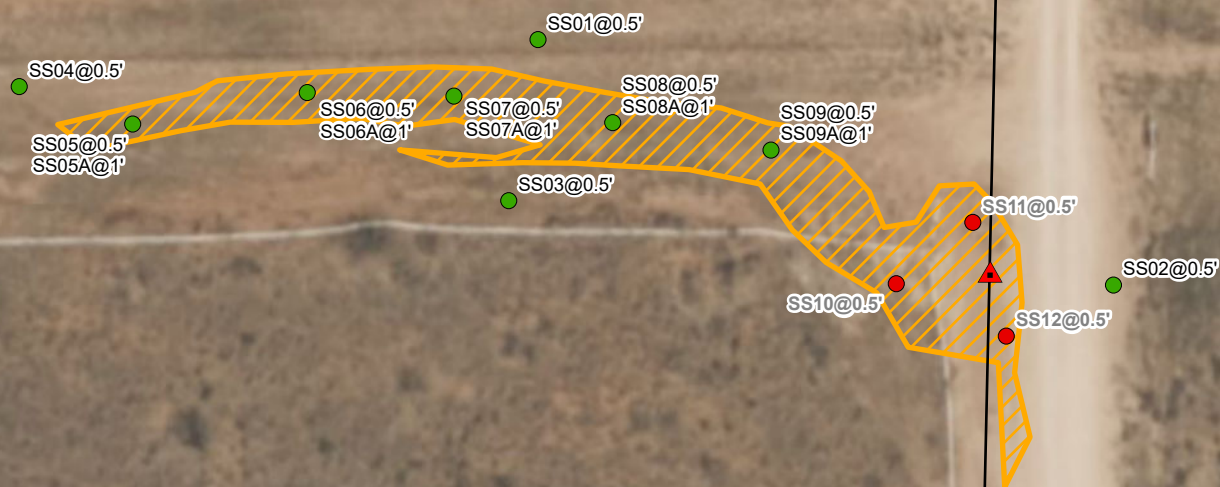
COG Operating, LLC
Brinninstool Unit 003H
Incident Number: NAPP2315635182
Unit A, Sec 20, T23S, R33E
Lea County, New Mexico

FIGURE

1

Legend

- ▲ Point of Release (POR)
- Assessment Soil Sample Location in Compliance with Closure Criteria
- Assessment Soil Sample Location with Concentrations Exceeding Closure Criteria
- Surface Line
- Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Samples in grey indicate samples were removed during excavation activities.

0 25 50 100
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Assessment Soil Sample Locations

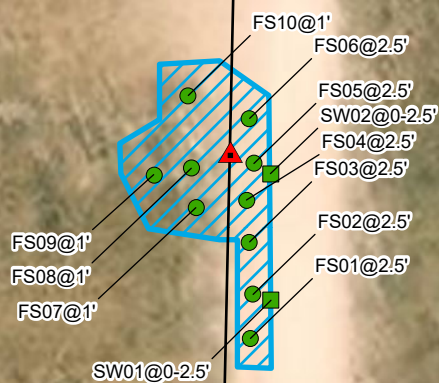
COG Operating, LLC
 Brinninstool Unit 003H
 Incident Number: NAPP2315635182
 Unit A, Sec 20, T23S, R33E
 Lea County, New Mexico

FIGURE

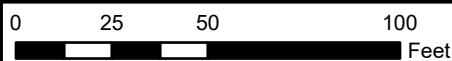
2

Legend

-  Point of Release (POR)
-  Excavation Floor Sample in Compliance with Closure Criteria
-  Excavation Sidewall Sample in Compliance with Closure Criteria
-  Surface Line
-  Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Excavation Soil Sample Locations

COG Operating, LLC
Brinninstool Unit 003H
Incident Number: NAPP2315635182
Unit A, Sec 20, T23S, R33E
Lea County, New Mexico

FIGURE

3



TABLES



TABLE I
SOIL SAMPLE ANALYTICAL RESULTS
 Brinninstool Unit 003H
 COG Operating, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Assessment Soil Samples										
SS01*	06/21/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	34.1
SS02*	06/21/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	36.3
SS03*	06/21/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	33.2
SS04*	06/21/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	39.9
SS05*	06/21/2023	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	40.0
SS05A*	07/07/2023	1	<0.00202	<0.00403	<50.1	<50.1	<50.1	<50.1	<50.1	67.2
SS06*	06/21/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	39.3
SS06A*	07/07/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	77.9
SS07*	06/21/2023	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	43.8
SS07A*	07/07/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	96.5
SS08*	06/21/2023	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	44.9
SS08A*	07/07/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	81.7
SS09*	06/21/2023	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	33.0
SS09A*	07/07/2023	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	102
SS10*	06/21/2023	0.5	<0.00200	<0.00401	<49.9	155	107	155	262	54.9
SS11*	06/21/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,750
SS12*	06/21/2023	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	3,890
Excavation Floor Soil Samples										
FS01*	07/07/2023	2.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	76.9
FS02*	07/07/2023	2.5	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	137
FS03*	07/07/2023	2.5	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	67.8
FS04*	07/07/2023	2.5	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	104
FS05*	07/07/2023	2.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	67.5
FS06*	07/07/2023	2.5	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	116



TABLE I
SOIL SAMPLE ANALYTICAL RESULTS
 Brinninstool Unit 003H
 COG Operating, LLC
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS07*	07/07/2023	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	84.8
FS08*	07/07/2023	1	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	80.4
FS09*	07/07/2023	1	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	60.8
FS10*	07/07/2023	1	<0.00200	<0.00400	<49.6	<49.6	<49.6	<49.6	<49.6	67.2
Excavation Sidewall Soil Samples										
SW01*	07/07/2023	0 - 2.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	67.9
SW02*	07/07/2023	0 - 2.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	55.8

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.



APPENDIX A

Referenced Well Records



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

New Mexico



GO

Click to hide

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

Groundwater levels for New Mexico

Click to hide state-specific text



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

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 321746103352301

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321746103352301 23S.33E.17.42331

Lea County, New Mexico

Latitude 32°17'46", Longitude 103°35'23" NAD27

Land-surface elevation 3,699 feet above NAVD88

The depth of the well is 550 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum
1972-09-21		D	62610		3192.86
1972-09-21		D	62611		3194.60
1972-09-21		D	72019	504.40	
1976-12-08		D	62610		3226.76
1976-12-08		D	62611		3228.50
1976-12-08		D	72019	470.50	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet

Section	Code	Description
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)[FOIA](#)[Privacy](#)[Policies and Notices](#)[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)**Title: Groundwater for New Mexico: Water Levels****URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2023-08-02 18:13:22 EDT

0.32 0.28 nadww01



APPENDIX B

Photographic Log



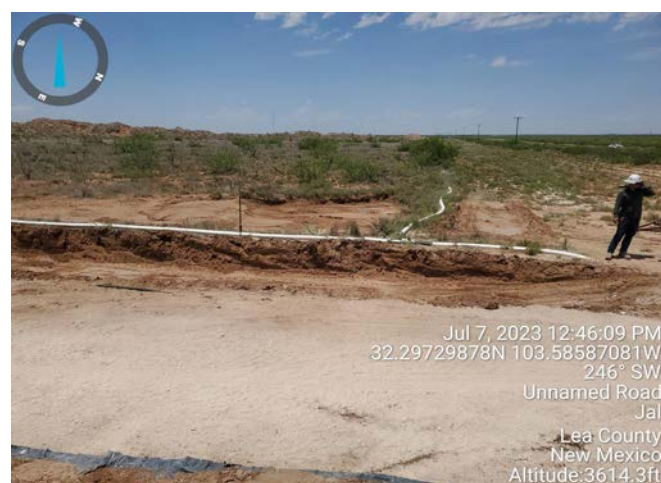
Photographic Log
 COG Operating, LLC
 Brinninstool Unit 003H
 NAPP2315635182



Photograph: 1 Date: 6/21/2023
 Description: Soil staining in release footprint
 View: West



Photograph: 2 Date: 6/21/2023
 Description: Soil staining in release footprint
 View: East



Photograph: 3 Date: 7/7/2023
 Description: Excavation activities
 View: West



Photograph: 4 Date: 7/7/2022
 Description: Excavation activities
 View: East



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 6/26/2023 10:54:46 AM

JOB DESCRIPTION

Brinninstoll Unit 003H

SDG NUMBER 03C2012037

JOB NUMBER

890-4846-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
6/26/2023 10:54:46 AM

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

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Laboratory Job ID: 890-4846-1
SDG: 03C2012037

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Definitions/Glossary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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.
α	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/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Job ID: 890-4846-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-4846-1****Receipt**

The samples were received on 6/21/2023 3:26 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 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4846-1), SS02 (890-4846-2), SS03 (890-4846-3), SS04 (890-4846-4), SS05 (890-4846-5), SS06 (890-4846-6), SS07 (890-4846-7), SS08 (890-4846-8), SS09 (890-4846-9), SS10 (890-4846-10), SS11 (890-4846-11) and SS12 (890-4846-12).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-56200 and analytical batch 880-56227 was outside the control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-56227 recovered above the upper control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-56227/2).

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56098 and analytical batch 880-56145 was outside the upper control limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-56145 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-56145/31).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-56210 and analytical batch 880-56147 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS01 (890-4846-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-56210 and analytical batch 880-56147 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery 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

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: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS01

Lab Sample ID: 890-4846-1

Date Collected: 06/21/23 11:30

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 20:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 20:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 20:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/23/23 11:43	06/23/23 20:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 20:07	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/23/23 11:43	06/23/23 20:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/23/23 11:43	06/23/23 20:07	1
1,4-Difluorobenzene (Surr)	92		70 - 130	06/23/23 11:43	06/23/23 20:07	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			06/26/23 09:47	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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:09	1
Total TPH	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130	06/23/23 13:55	06/24/23 00:09	1
o-Terphenyl	137	S1+	70 - 130	06/23/23 13:55	06/24/23 00:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.1		5.04	mg/Kg			06/23/23 20:56	1

Client Sample ID: SS02

Lab Sample ID: 890-4846-2

Date Collected: 06/21/23 11:35

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/23/23 11:43	06/23/23 20:33	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/23/23 11:43	06/23/23 20:33	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/23/23 11:43	06/23/23 20:33	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/23/23 11:43	06/23/23 20:33	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/23/23 11:43	06/23/23 20:33	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/23/23 11:43	06/23/23 20:33	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS02

Lab Sample ID: 890-4846-2

Date Collected: 06/21/23 11:35

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	06/23/23 11:43	06/23/23 20:33	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/23/23 11:43	06/23/23 20:33	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			06/26/23 09:47	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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:31	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:31	1
Total TPH	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	06/23/23 13:55	06/24/23 00:31	1
o-Terphenyl	122		70 - 130	06/23/23 13:55	06/24/23 00:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.3		4.99	mg/Kg			06/23/23 21:13	1

Client Sample ID: SS03

Lab Sample ID: 890-4846-3

Date Collected: 06/21/23 11:40

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 21:00	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/23/23 11:43	06/23/23 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	06/23/23 11:43	06/23/23 21:00	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/23/23 11:43	06/23/23 21:00	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			06/26/23 09:47	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS03

Lab Sample ID: 890-4846-3

Date Collected: 06/21/23 11:40

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:54	1
Total TPH	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 00:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			06/23/23 13:55	06/24/23 00:54	1
o-Terphenyl	126		70 - 130			06/23/23 13:55	06/24/23 00:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.2		4.99	mg/Kg			06/23/23 21:19	1

Client Sample ID: SS04

Lab Sample ID: 890-4846-4

Date Collected: 06/21/23 11:45

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 21:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 21:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 21:26	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		06/23/23 11:43	06/23/23 21:26	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 21:26	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		06/23/23 11:43	06/23/23 21:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			06/23/23 11:43	06/23/23 21:26	1
1,4-Difluorobenzene (Surr)	97		70 - 130			06/23/23 11:43	06/23/23 21:26	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			06/26/23 09:47	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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 01:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 01:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 01:17	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS04

Lab Sample ID: 890-4846-4

Date Collected: 06/21/23 11:45

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 01:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			06/23/23 13:55	06/24/23 01:17	1
o-Terphenyl	126		70 - 130			06/23/23 13:55	06/24/23 01:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.9		5.02	mg/Kg			06/23/23 21:25	1

Client Sample ID: SS05

Lab Sample ID: 890-4846-5

Date Collected: 06/21/23 12:00

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 21:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 21:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 21:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/23/23 11:43	06/23/23 21:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 21:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/23/23 11:43	06/23/23 21:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			06/23/23 11:43	06/23/23 21:52	1
1,4-Difluorobenzene (Surr)	94		70 - 130			06/23/23 11:43	06/23/23 21:52	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			06/26/23 09:47	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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 01:39	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 01:39	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 01:39	1
Total TPH	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 01:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			06/23/23 13:55	06/24/23 01:39	1
o-Terphenyl	122		70 - 130			06/23/23 13:55	06/24/23 01:39	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS05

Lab Sample ID: 890-4846-5

Date Collected: 06/21/23 12:00

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.0		5.04	mg/Kg			06/23/23 21:31	1

Client Sample ID: SS06

Lab Sample ID: 890-4846-6

Date Collected: 06/21/23 12:05

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 22:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 22:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 22:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/23/23 11:43	06/23/23 22:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 22:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/23/23 11:43	06/23/23 22:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			06/23/23 11:43	06/23/23 22:18	1
1,4-Difluorobenzene (Surr)	106		70 - 130			06/23/23 11:43	06/23/23 22:18	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			06/26/23 09:47	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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 02:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 02:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 02:01	1
Total TPH	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 02:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			06/23/23 13:55	06/24/23 02:01	1
o-Terphenyl	124		70 - 130			06/23/23 13:55	06/24/23 02:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39.3		5.05	mg/Kg			06/23/23 21:48	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS07

Lab Sample ID: 890-4846-7

Date Collected: 06/21/23 12:10

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 22:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 22:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 22:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/23/23 11:43	06/23/23 22:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/23/23 22:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/23/23 11:43	06/23/23 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/23/23 11:43	06/23/23 22:44	1
1,4-Difluorobenzene (Surr)	94		70 - 130	06/23/23 11:43	06/23/23 22:44	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			06/26/23 09:47	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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 02:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 02:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 02:23	1
Total TPH	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/24/23 02:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	06/23/23 13:55	06/24/23 02:23	1
o-Terphenyl	114		70 - 130	06/23/23 13:55	06/24/23 02:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.8		5.05	mg/Kg			06/23/23 21:54	1

Client Sample ID: SS08

Lab Sample ID: 890-4846-8

Date Collected: 06/21/23 12:15

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 23:10	1
Toluene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 23:10	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 23:10	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		06/23/23 11:43	06/23/23 23:10	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		06/23/23 11:43	06/23/23 23:10	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		06/23/23 11:43	06/23/23 23:10	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS08

Lab Sample ID: 890-4846-8

Date Collected: 06/21/23 12:15

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	06/23/23 11:43	06/23/23 23:10	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/23/23 11:43	06/23/23 23:10	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			06/26/23 09:47	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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 02:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 02:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 02:45	1
Total TPH	<49.8	U	49.8	mg/Kg		06/23/23 13:55	06/24/23 02:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130	06/23/23 13:55	06/24/23 02:45	1
o-Terphenyl	129		70 - 130	06/23/23 13:55	06/24/23 02:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	44.9		4.98	mg/Kg			06/23/23 22:00	1

Client Sample ID: SS09

Lab Sample ID: 890-4846-9

Date Collected: 06/21/23 12:25

Matrix: Solid

Date Received: 06/21/23 15:26

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		06/23/23 11:43	06/23/23 23:36	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/23/23 23:36	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/23/23 23:36	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/23/23 11:43	06/23/23 23:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/23/23 23:36	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/23/23 11:43	06/23/23 23:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	06/23/23 11:43	06/23/23 23:36	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/23/23 11:43	06/23/23 23:36	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			06/26/23 09:47	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS09

Lab Sample ID: 890-4846-9

Date Collected: 06/21/23 12:25

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/23/23 13:55	06/24/23 03:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/23/23 13:55	06/24/23 03:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/23/23 13:55	06/24/23 03:08	1
Total TPH	<50.0	U	50.0	mg/Kg		06/23/23 13:55	06/24/23 03:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	06/23/23 13:55	06/24/23 03:08	1
o-Terphenyl	123		70 - 130	06/23/23 13:55	06/24/23 03:08	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.0		4.99	mg/Kg			06/23/23 22:06	1

Client Sample ID: SS10

Lab Sample ID: 890-4846-10

Date Collected: 06/21/23 12:30

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/24/23 00:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/24/23 00:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/24/23 00:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		06/23/23 11:43	06/24/23 00:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/23/23 11:43	06/24/23 00:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		06/23/23 11:43	06/24/23 00:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	06/23/23 11:43	06/24/23 00:02	1
1,4-Difluorobenzene (Surr)	103		70 - 130	06/23/23 11:43	06/24/23 00:02	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			06/26/23 09:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	262		49.9	mg/Kg			06/26/23 11:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/23/23 13:55	06/23/23 23:01	1
Diesel Range Organics (Over C10-C28)	155	F1	49.9	mg/Kg		06/23/23 13:55	06/23/23 23:01	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS10

Lab Sample ID: 890-4846-10

Date Collected: 06/21/23 12:30

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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)	107		49.9	mg/Kg		06/23/23 13:55	06/23/23 23:01	1
Total TPH	262	F1	49.9	mg/Kg		06/23/23 13:55	06/23/23 23:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			06/23/23 13:55	06/23/23 23:01	1
o-Terphenyl	117		70 - 130			06/23/23 13:55	06/23/23 23:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.9		5.01	mg/Kg			06/23/23 22:12	1

Client Sample ID: SS11

Lab Sample ID: 890-4846-11

Date Collected: 06/21/23 12:35

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/23/23 11:43	06/24/23 01:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/23/23 11:43	06/24/23 01:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/23/23 11:43	06/24/23 01:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/23/23 11:43	06/24/23 01:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/23/23 11:43	06/24/23 01:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/23/23 11:43	06/24/23 01:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			06/23/23 11:43	06/24/23 01:47	1
1,4-Difluorobenzene (Surr)	90		70 - 130			06/23/23 11:43	06/24/23 01:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/26/23 09:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/26/23 11:08	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		06/22/23 13:37	06/23/23 19:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/22/23 13:37	06/23/23 19:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/22/23 13:37	06/23/23 19:56	1
Total TPH	<50.0	U	50.0	mg/Kg		06/22/23 13:37	06/23/23 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			06/22/23 13:37	06/23/23 19:56	1
o-Terphenyl	101		70 - 130			06/22/23 13:37	06/23/23 19:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS11

Lab Sample ID: 890-4846-11

Date Collected: 06/21/23 12:35

Matrix: Solid

Date Received: 06/21/23 15:26

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		24.9	mg/Kg			06/23/23 22:17	5

Client Sample ID: SS12

Lab Sample ID: 890-4846-12

Date Collected: 06/21/23 12:40

Matrix: Solid

Date Received: 06/21/23 15:26

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		06/23/23 11:43	06/24/23 02:12	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/24/23 02:12	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/24/23 02:12	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		06/23/23 11:43	06/24/23 02:12	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/23/23 11:43	06/24/23 02:12	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		06/23/23 11:43	06/24/23 02:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			06/23/23 11:43	06/24/23 02:12	1
1,4-Difluorobenzene (Surr)	107		70 - 130			06/23/23 11:43	06/24/23 02:12	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			06/26/23 09:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/26/23 11:08	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		06/22/23 13:37	06/23/23 20:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/22/23 13:37	06/23/23 20:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/22/23 13:37	06/23/23 20:19	1
Total TPH	<50.0	U	50.0	mg/Kg		06/22/23 13:37	06/23/23 20:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			06/22/23 13:37	06/23/23 20:19	1
o-Terphenyl	104		70 - 130			06/22/23 13:37	06/23/23 20:19	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3890		25.1	mg/Kg			06/23/23 22:35	5

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Surrogate Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-4846-1	SS01	100	92
890-4846-1 MS	SS01	95	97
890-4846-1 MSD	SS01	103	104
890-4846-2	SS02	104	99
890-4846-3	SS03	99	85
890-4846-4	SS04	101	97
890-4846-5	SS05	112	94
890-4846-6	SS06	106	106
890-4846-7	SS07	107	94
890-4846-8	SS08	100	103
890-4846-9	SS09	109	89
890-4846-10	SS10	107	103
890-4846-11	SS11	103	90
890-4846-12	SS12	115	107
LCS 880-56200/1-A	Lab Control Sample	99	107
LCSD 880-56200/2-A	Lab Control Sample Dup	92	99
MB 880-56200/5-A	Method Blank	59 S1-	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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29850-A-21-E MS	Matrix Spike	120	99
880-29850-A-21-F MSD	Matrix Spike Duplicate	120	99
890-4846-1	SS01	127	137 S1+
890-4846-2	SS02	110	122
890-4846-3	SS03	114	126
890-4846-4	SS04	113	126
890-4846-5	SS05	109	122
890-4846-6	SS06	110	124
890-4846-7	SS07	103	114
890-4846-8	SS08	116	129
890-4846-9	SS09	112	123
890-4846-10	SS10	108	117
890-4846-10 MS	SS10	101	102
890-4846-10 MSD	SS10	112	112
890-4846-11	SS11	111	101
890-4846-12	SS12	114	104
LCS 880-56098/2-A	Lab Control Sample	113	101
LCS 880-56210/2-A	Lab Control Sample	84	96
LCSD 880-56098/3-A	Lab Control Sample Dup	106	95
LCSD 880-56210/3-A	Lab Control Sample Dup	99	112
MB 880-56098/1-A	Method Blank	143 S1+	133 S1+
MB 880-56210/1-A	Method Blank	165 S1+	184 S1+

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Surrogate Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-56200/5-A

Matrix: Solid

Analysis Batch: 56227

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56200

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 19:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 19:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 19:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		06/23/23 11:43	06/23/23 19:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		06/23/23 11:43	06/23/23 19:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		06/23/23 11:43	06/23/23 19:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130	06/23/23 11:43	06/23/23 19:41	1
1,4-Difluorobenzene (Surr)	88		70 - 130	06/23/23 11:43	06/23/23 19:41	1

Lab Sample ID: LCS 880-56200/1-A

Matrix: Solid

Analysis Batch: 56227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56200

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1193		mg/Kg		119	70 - 130
Toluene	0.100	0.1129		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1162		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2352		mg/Kg		118	70 - 130
o-Xylene	0.100	0.1132		mg/Kg		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCSD 880-56200/2-A

Matrix: Solid

Analysis Batch: 56227

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56200

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1125		mg/Kg		112	70 - 130	6	35
Toluene	0.100	0.1097		mg/Kg		110	70 - 130	3	35
Ethylbenzene	0.100	0.1053		mg/Kg		105	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.2124		mg/Kg		106	70 - 130	10	35
o-Xylene	0.100	0.1103		mg/Kg		110	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-4846-1 MS

Matrix: Solid

Analysis Batch: 56227

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 56200

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.101	0.1141		mg/Kg		113	70 - 130
Toluene	<0.00198	U	0.101	0.1134		mg/Kg		112	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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

Lab Sample ID: 890-4846-1 MS

Matrix: Solid

Analysis Batch: 56227

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 56200

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.101	0.1074		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.202	0.2156		mg/Kg		107	70 - 130
o-Xylene	<0.00198	U	0.101	0.1073		mg/Kg		106	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-4846-1 MSD

Matrix: Solid

Analysis Batch: 56227

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 56200

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1299		mg/Kg		130	70 - 130	13	35
Toluene	<0.00198	U	0.100	0.1242		mg/Kg		124	70 - 130	9	35
Ethylbenzene	<0.00198	U	0.100	0.1199		mg/Kg		120	70 - 130	11	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2418		mg/Kg		121	70 - 130	11	35
o-Xylene	<0.00198	U	0.100	0.1199		mg/Kg		120	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-56098/1-A

Matrix: Solid

Analysis Batch: 56145

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56098

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		06/22/23 13:37	06/23/23 09:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/22/23 13:37	06/23/23 09:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/22/23 13:37	06/23/23 09:08	1
Total TPH	<50.0	U	50.0	mg/Kg		06/22/23 13:37	06/23/23 09:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	06/22/23 13:37	06/23/23 09:08	1
o-Terphenyl	133	S1+	70 - 130	06/22/23 13:37	06/23/23 09:08	1

Lab Sample ID: LCS 880-56098/2-A

Matrix: Solid

Analysis Batch: 56145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	909.5		mg/Kg		91	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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

Lab Sample ID: LCS 880-56098/2-A

Matrix: Solid

Analysis Batch: 56145

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56098

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	943.2		mg/Kg		94	70 - 130
	LCS	LCS					
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	113		70 - 130				
o-Terphenyl	101		70 - 130				

Lab Sample ID: LCSD 880-56098/3-A

Matrix: Solid

Analysis Batch: 56145

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56098

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	989.2		mg/Kg		99	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	968.7		mg/Kg		97	70 - 130	3	20
	LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	106		70 - 130						
o-Terphenyl	95		70 - 130						

Lab Sample ID: 880-29850-A-21-E MS

Matrix: Solid

Analysis Batch: 56145

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 56098

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	1000	1044		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	1017		mg/Kg		97	70 - 130
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	99		70 - 130						

Lab Sample ID: 880-29850-A-21-F MSD

Matrix: Solid

Analysis Batch: 56145

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 56098

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	998	1018		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1034		mg/Kg		99	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	120		70 - 130								
o-Terphenyl	99		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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

Lab Sample ID: MB 880-56210/1-A

Matrix: Solid

Analysis Batch: 56147

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 56210

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		06/23/23 13:55	06/23/23 21:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/23/23 13:55	06/23/23 21:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/23/23 13:55	06/23/23 21:52	1
Total TPH	<50.0	U	50.0	mg/Kg		06/23/23 13:55	06/23/23 21:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	165	S1+	70 - 130	06/23/23 13:55	06/23/23 21:52	1
o-Terphenyl	184	S1+	70 - 130	06/23/23 13:55	06/23/23 21:52	1

Lab Sample ID: LCS 880-56210/2-A

Matrix: Solid

Analysis Batch: 56147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 56210

Lab Sample ID: LCSD 880-56210/3-A

Matrix: Solid

Analysis Batch: 56147

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 56210

Lab Sample ID: 890-4846-10 MS

Matrix: Solid

Analysis Batch: 56147

Client Sample ID: SS10

Prep Type: Total/NA

Prep Batch: 56210

QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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

Lab Sample ID: 890-4846-10 MS

Matrix: Solid

Analysis Batch: 56147

Client Sample ID: SS10

Prep Type: Total/NA

Prep Batch: 56210

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 890-4846-10 MSD

Matrix: Solid

Analysis Batch: 56147

Client Sample ID: SS10

Prep Type: Total/NA

Prep Batch: 56210

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	999	970.1		mg/Kg		97	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	155	F1	999	880.9		mg/Kg		73	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	112		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-56174/1-A

Matrix: Solid

Analysis Batch: 56235

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			06/23/23 20:38	1

Lab Sample ID: LCS 880-56174/2-A

Matrix: Solid

Analysis Batch: 56235

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-56174/3-A

Matrix: Solid

Analysis Batch: 56235

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	250.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-4846-1 MS

Matrix: Solid

Analysis Batch: 56235

Client Sample ID: SS01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	34.1		252	279.6		mg/Kg		97	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4846-1 MSD Matrix: Solid Analysis Batch: 56235										Client Sample ID: SS01 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	34.1		252	280.3		mg/Kg		98	90 - 110	0	20	

Lab Sample ID: 890-4846-11 MS Matrix: Solid Analysis Batch: 56235										Client Sample ID: SS11 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	1750		1250	3105		mg/Kg		109	90 - 110			

Lab Sample ID: 890-4846-11 MSD Matrix: Solid Analysis Batch: 56235										Client Sample ID: SS11 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	1750		1250	3098		mg/Kg		109	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

GC VOA

Prep Batch: 56200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	5035	
890-4846-2	SS02	Total/NA	Solid	5035	
890-4846-3	SS03	Total/NA	Solid	5035	
890-4846-4	SS04	Total/NA	Solid	5035	
890-4846-5	SS05	Total/NA	Solid	5035	
890-4846-6	SS06	Total/NA	Solid	5035	
890-4846-7	SS07	Total/NA	Solid	5035	
890-4846-8	SS08	Total/NA	Solid	5035	
890-4846-9	SS09	Total/NA	Solid	5035	
890-4846-10	SS10	Total/NA	Solid	5035	
890-4846-11	SS11	Total/NA	Solid	5035	
890-4846-12	SS12	Total/NA	Solid	5035	
MB 880-56200/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-56200/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-56200/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4846-1 MS	SS01	Total/NA	Solid	5035	
890-4846-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 56227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	8021B	56200
890-4846-2	SS02	Total/NA	Solid	8021B	56200
890-4846-3	SS03	Total/NA	Solid	8021B	56200
890-4846-4	SS04	Total/NA	Solid	8021B	56200
890-4846-5	SS05	Total/NA	Solid	8021B	56200
890-4846-6	SS06	Total/NA	Solid	8021B	56200
890-4846-7	SS07	Total/NA	Solid	8021B	56200
890-4846-8	SS08	Total/NA	Solid	8021B	56200
890-4846-9	SS09	Total/NA	Solid	8021B	56200
890-4846-10	SS10	Total/NA	Solid	8021B	56200
890-4846-11	SS11	Total/NA	Solid	8021B	56200
890-4846-12	SS12	Total/NA	Solid	8021B	56200
MB 880-56200/5-A	Method Blank	Total/NA	Solid	8021B	56200
LCS 880-56200/1-A	Lab Control Sample	Total/NA	Solid	8021B	56200
LCSD 880-56200/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	56200
890-4846-1 MS	SS01	Total/NA	Solid	8021B	56200
890-4846-1 MSD	SS01	Total/NA	Solid	8021B	56200

Analysis Batch: 56311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	Total BTEX	
890-4846-2	SS02	Total/NA	Solid	Total BTEX	
890-4846-3	SS03	Total/NA	Solid	Total BTEX	
890-4846-4	SS04	Total/NA	Solid	Total BTEX	
890-4846-5	SS05	Total/NA	Solid	Total BTEX	
890-4846-6	SS06	Total/NA	Solid	Total BTEX	
890-4846-7	SS07	Total/NA	Solid	Total BTEX	
890-4846-8	SS08	Total/NA	Solid	Total BTEX	
890-4846-9	SS09	Total/NA	Solid	Total BTEX	
890-4846-10	SS10	Total/NA	Solid	Total BTEX	
890-4846-11	SS11	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

GC VOA (Continued)

Analysis Batch: 56311 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-12	SS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 56098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-11	SS11	Total/NA	Solid	8015NM Prep	
890-4846-12	SS12	Total/NA	Solid	8015NM Prep	
MB 880-56098/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56098/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56098/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-29850-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-29850-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-11	SS11	Total/NA	Solid	8015B NM	56098
890-4846-12	SS12	Total/NA	Solid	8015B NM	56098
MB 880-56098/1-A	Method Blank	Total/NA	Solid	8015B NM	56098
LCS 880-56098/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56098
LCSD 880-56098/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56098
880-29850-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	56098
880-29850-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	56098

Analysis Batch: 56147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	8015B NM	56210
890-4846-2	SS02	Total/NA	Solid	8015B NM	56210
890-4846-3	SS03	Total/NA	Solid	8015B NM	56210
890-4846-4	SS04	Total/NA	Solid	8015B NM	56210
890-4846-5	SS05	Total/NA	Solid	8015B NM	56210
890-4846-6	SS06	Total/NA	Solid	8015B NM	56210
890-4846-7	SS07	Total/NA	Solid	8015B NM	56210
890-4846-8	SS08	Total/NA	Solid	8015B NM	56210
890-4846-9	SS09	Total/NA	Solid	8015B NM	56210
890-4846-10	SS10	Total/NA	Solid	8015B NM	56210
MB 880-56210/1-A	Method Blank	Total/NA	Solid	8015B NM	56210
LCS 880-56210/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	56210
LCSD 880-56210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	56210
890-4846-10 MS	SS10	Total/NA	Solid	8015B NM	56210
890-4846-10 MSD	SS10	Total/NA	Solid	8015B NM	56210

Prep Batch: 56210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	8015NM Prep	
890-4846-2	SS02	Total/NA	Solid	8015NM Prep	
890-4846-3	SS03	Total/NA	Solid	8015NM Prep	
890-4846-4	SS04	Total/NA	Solid	8015NM Prep	
890-4846-5	SS05	Total/NA	Solid	8015NM Prep	
890-4846-6	SS06	Total/NA	Solid	8015NM Prep	
890-4846-7	SS07	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

GC Semi VOA (Continued)

Prep Batch: 56210 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-8	SS08	Total/NA	Solid	8015NM Prep	
890-4846-9	SS09	Total/NA	Solid	8015NM Prep	
890-4846-10	SS10	Total/NA	Solid	8015NM Prep	
MB 880-56210/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-56210/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-56210/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4846-10 MS	SS10	Total/NA	Solid	8015NM Prep	
890-4846-10 MSD	SS10	Total/NA	Solid	8015NM Prep	

Analysis Batch: 56344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Total/NA	Solid	8015 NM	
890-4846-2	SS02	Total/NA	Solid	8015 NM	
890-4846-3	SS03	Total/NA	Solid	8015 NM	
890-4846-4	SS04	Total/NA	Solid	8015 NM	
890-4846-5	SS05	Total/NA	Solid	8015 NM	
890-4846-6	SS06	Total/NA	Solid	8015 NM	
890-4846-7	SS07	Total/NA	Solid	8015 NM	
890-4846-8	SS08	Total/NA	Solid	8015 NM	
890-4846-9	SS09	Total/NA	Solid	8015 NM	
890-4846-10	SS10	Total/NA	Solid	8015 NM	
890-4846-11	SS11	Total/NA	Solid	8015 NM	
890-4846-12	SS12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 56174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Soluble	Solid	DI Leach	
890-4846-2	SS02	Soluble	Solid	DI Leach	
890-4846-3	SS03	Soluble	Solid	DI Leach	
890-4846-4	SS04	Soluble	Solid	DI Leach	
890-4846-5	SS05	Soluble	Solid	DI Leach	
890-4846-6	SS06	Soluble	Solid	DI Leach	
890-4846-7	SS07	Soluble	Solid	DI Leach	
890-4846-8	SS08	Soluble	Solid	DI Leach	
890-4846-9	SS09	Soluble	Solid	DI Leach	
890-4846-10	SS10	Soluble	Solid	DI Leach	
890-4846-11	SS11	Soluble	Solid	DI Leach	
890-4846-12	SS12	Soluble	Solid	DI Leach	
MB 880-56174/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-56174/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-56174/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4846-1 MS	SS01	Soluble	Solid	DI Leach	
890-4846-1 MSD	SS01	Soluble	Solid	DI Leach	
890-4846-11 MS	SS11	Soluble	Solid	DI Leach	
890-4846-11 MSD	SS11	Soluble	Solid	DI Leach	

Analysis Batch: 56235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-1	SS01	Soluble	Solid	300.0	56174

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QC Association Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

HPLC/IC (Continued)

Analysis Batch: 56235 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4846-2	SS02	Soluble	Solid	300.0	56174
890-4846-3	SS03	Soluble	Solid	300.0	56174
890-4846-4	SS04	Soluble	Solid	300.0	56174
890-4846-5	SS05	Soluble	Solid	300.0	56174
890-4846-6	SS06	Soluble	Solid	300.0	56174
890-4846-7	SS07	Soluble	Solid	300.0	56174
890-4846-8	SS08	Soluble	Solid	300.0	56174
890-4846-9	SS09	Soluble	Solid	300.0	56174
890-4846-10	SS10	Soluble	Solid	300.0	56174
890-4846-11	SS11	Soluble	Solid	300.0	56174
890-4846-12	SS12	Soluble	Solid	300.0	56174
MB 880-56174/1-A	Method Blank	Soluble	Solid	300.0	56174
LCS 880-56174/2-A	Lab Control Sample	Soluble	Solid	300.0	56174
LCSD 880-56174/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	56174
890-4846-1 MS	SS01	Soluble	Solid	300.0	56174
890-4846-1 MSD	SS01	Soluble	Solid	300.0	56174
890-4846-11 MS	SS11	Soluble	Solid	300.0	56174
890-4846-11 MSD	SS11	Soluble	Solid	300.0	56174

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS01
Date Collected: 06/21/23 11:30
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 20:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 00:09	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 20:56	SMC	EET MID

Client Sample ID: SS02
Date Collected: 06/21/23 11:35
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 20:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 00:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:13	SMC	EET MID

Client Sample ID: SS03
Date Collected: 06/21/23 11:40
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 21:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 00:54	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:19	SMC	EET MID

Client Sample ID: SS04
Date Collected: 06/21/23 11:45
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 21:26	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS04
Date Collected: 06/21/23 11:45
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 01:17	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:25	SMC	EET MID

Client Sample ID: SS05
Date Collected: 06/21/23 12:00
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 21:52	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 01:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:31	SMC	EET MID

Client Sample ID: SS06
Date Collected: 06/21/23 12:05
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 22:18	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 02:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:48	SMC	EET MID

Client Sample ID: SS07
Date Collected: 06/21/23 12:10
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 22:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 02:23	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS07
Date Collected: 06/21/23 12:10
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 21:54	SMC	EET MID

Client Sample ID: SS08
Date Collected: 06/21/23 12:15
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 23:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 02:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 22:00	SMC	EET MID

Client Sample ID: SS09
Date Collected: 06/21/23 12:25
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/23/23 23:36	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/24/23 03:08	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 22:06	SMC	EET MID

Client Sample ID: SS10
Date Collected: 06/21/23 12:30
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/24/23 00:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	56210	06/23/23 13:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56147	06/23/23 23:01	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		1			56235	06/23/23 22:12	SMC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Client Sample ID: SS11
Date Collected: 06/21/23 12:35
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/24/23 01:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	56098	06/22/23 13:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56145	06/23/23 19:56	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		5			56235	06/23/23 22:17	SMC	EET MID

Client Sample ID: SS12
Date Collected: 06/21/23 12:40
Date Received: 06/21/23 15:26

Lab Sample ID: 890-4846-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	56200	06/23/23 11:43	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	56227	06/24/23 02:12	SM	EET MID
Total/NA	Analysis	Total BTEX		1			56311	06/26/23 09:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			56344	06/26/23 11:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	56098	06/22/23 13:37	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	56145	06/23/23 20:19	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	56174	06/23/23 10:39	KS	EET MID
Soluble	Analysis	300.0		5			56235	06/23/23 22:35	SMC	EET MID

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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	T104704400-22-25	06-30-23

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
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

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: Brinninstoll Unit 003H

Job ID: 890-4846-1
SDG: 03C2012037

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4846-1	SS01	Solid	06/21/23 11:30	06/21/23 15:26	0.5
890-4846-2	SS02	Solid	06/21/23 11:35	06/21/23 15:26	0.5
890-4846-3	SS03	Solid	06/21/23 11:40	06/21/23 15:26	0.5
890-4846-4	SS04	Solid	06/21/23 11:45	06/21/23 15:26	0.5
890-4846-5	SS05	Solid	06/21/23 12:00	06/21/23 15:26	0.5
890-4846-6	SS06	Solid	06/21/23 12:05	06/21/23 15:26	0.5
890-4846-7	SS07	Solid	06/21/23 12:10	06/21/23 15:26	0.5
890-4846-8	SS08	Solid	06/21/23 12:15	06/21/23 15:26	0.5
890-4846-9	SS09	Solid	06/21/23 12:25	06/21/23 15:26	0.5
890-4846-10	SS10	Solid	06/21/23 12:30	06/21/23 15:26	0.5
890-4846-11	SS11	Solid	06/21/23 12:35	06/21/23 15:26	0.5
890-4846-12	SS12	Solid	06/21/23 12:40	06/21/23 15:26	0.5

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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 Order No: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com, kjennings@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:		Brinninstool Unit 003H		Turn Around		ANALYSIS REQUEST												Preservative Codes				
Project Number:		03C2012037		☒ Routine ☐ Rush		Pres. Code														None: NO DI Water: H ₂ O		
Project Location:		32.29733, -103.58598		Due Date:																Cool: Cool MeOH: Me		
Sampler's Name:		Peter Van Patten		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO ₃ : HN		
PO #:																				H ₂ SO ₄ : H ₂ NaOH: Na		
SAMPLE RECEIPT		Temp Blank: ☒ Yes ☐ No		Wet Ice: ☒ Yes ☐ No		Parameters														H ₃ PO ₄ : HP		
Samples Received Intact:		☒ Yes ☐ No		Thermometer ID: <u>71711007</u>																NaHSO ₄ : NABIS		
Cooler Custody Seals:		☒ Yes ☐ No <u>N/A</u>		Correction Factor: <u>-0.2</u>																Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:		☒ Yes ☐ No <u>N/A</u>		Temperature Reading: <u>4.2</u>																Zn Acetate+NaOH: Zn		
Total Containers:				Corrected Temperature: <u>4.0</u>																NaOH+Ascorbic Acid: SAPC		
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)											Sample Comments	
SS01		Soil	6/21/2023	1130	0.5	Comp	1	x	x	x												
SS02		Soil	6/21/2023	1135	0.5	Comp	1	x	x	x												
SS03		Soil	6/21/2023	1140	0.5	Comp	1	x	x	x												
SS04		Soil	6/21/2023	1145	0.5	Comp	1	x	x	x												
SS05		Soil	6/21/2023	1200	0.5	Comp	1	x	x	x												
SS06		Soil	6/21/2023	1205	0.5	Comp	1	x	x	x												
SS07		Soil	6/21/2023	1210	0.5	Comp	1	x	x	x												
SS08		Soil	6/21/2023	1215	0.5	Comp	1	x	x	x												
SS09		Soil	6/21/2023	1225	0.5	Comp	1	x	x	x												
SS10		Soil	6/21/2023	1230	0.5	Comp	1	x	x	x												

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010:		8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U	Hg: 1631 / 245.1 / 7470 / 7471											

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <u>Peter Van Patten</u>	<u>Care Qip</u>	<u>6.21.23 1524</u>			
3					
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4846-1

SDG Number: 03C2012037

Login Number: 4846

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4846-1

SDG Number: 03C2012037

Login Number: 4846

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/23/23 10:53 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 7/24/2023 2:59:38 PM

JOB DESCRIPTION

Brinninstool Unit 003H
SDG NUMBER 03D2024197

JOB NUMBER

890-4914-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



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7/24/2023 2:59:38 PM

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

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Laboratory Job ID: 890-4914-1
SDG: 03D2024197

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Definitions/Glossary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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.
α	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

Eurofins Carlsbad

Case Narrative

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Job ID: 890-4914-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4914-1

Receipt

The samples were received on 7/7/2023 2:57 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 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4914-1), FS02 (890-4914-2), FS03 (890-4914-3), FS04 (890-4914-4), FS05 (890-4914-5), FS06 (890-4914-6), FS07 (890-4914-7), FS08 (890-4914-8), FS09 (890-4914-9), FS10 (890-4914-10), SS05A (890-4914-11), SS06A (890-4914-12), SS07A (890-4914-13), SS08A (890-4914-14), SS09A (890-4914-15), SW01 (890-4914-16) and SW02 (890-4914-17).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCSD 880-57410/2-A) and (MB 880-57410/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS02 (890-4914-2), FS03 (890-4914-3), FS05 (890-4914-5) and SS07A (890-4914-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-57410 and analytical batch 880-57379 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 8021B: LCSD biased low. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-57410/2-A)

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57379 recovered below the lower control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated samples are impacted: (CCV 880-57379/20) and (CCV 880-57379/51).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57381 recovered below the lower control limit for o-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-57381/20).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-57416 and analytical batch 880-57381 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 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-57560/20), (CCV 880-57560/33), (LCS 880-57410/1-A) and (LCSD 880-57410/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (890-4914-1), FS02 (890-4914-2), FS03 (890-4914-3), FS04 (890-4914-4), FS07 (890-4914-7), FS08 (890-4914-8), FS09 (890-4914-9), FS10 (890-4914-10), SS05A (890-4914-11), SS06A (890-4914-12), SS07A (890-4914-13), SS08A (890-4914-14) and (890-4913-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-57560 recovered above the upper control limit for Benzene and Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-57560/33).

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

Case Narrative

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Job ID: 890-4914-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)**GC Semi VOA**

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-57501 and analytical batch 880-57664 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-57664/20), (CCV 880-57664/31) and (CCV 880-57664/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS06A (890-4914-12), SS07A (890-4914-13), (890-4915-A-1-E) and (890-4915-A-1-F MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-57801 and analytical batch 880-58259 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-58259/20), (CCV 880-58259/31) and (CCV 880-58259/5). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS03 (890-4914-3) and FS04 (890-4914-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS06 (890-4914-6), FS08 (890-4914-8) and FS09 (890-4914-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-57365 and analytical batch 880-57420 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.

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS01

Lab Sample ID: 890-4914-1

Date Collected: 07/07/23 10:25

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		07/11/23 12:32	07/12/23 02:01	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/11/23 12:32	07/12/23 02:01	1
Ethylbenzene	<0.00198	U *- *1	0.00198	mg/Kg		07/11/23 12:32	07/12/23 02:01	1
m-Xylene & p-Xylene	<0.00396	U *- *1	0.00396	mg/Kg		07/11/23 12:32	07/12/23 02:01	1
o-Xylene	<0.00198	U *- *1	0.00198	mg/Kg		07/11/23 12:32	07/12/23 02:01	1
Xylenes, Total	<0.00396	U *- *1	0.00396	mg/Kg		07/11/23 12:32	07/12/23 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	07/11/23 12:32	07/12/23 02:01	1
1,4-Difluorobenzene (Surr)	86		70 - 130	07/11/23 12:32	07/12/23 02:01	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			07/12/23 11:12	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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		07/17/23 09:21	07/22/23 17:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/17/23 09:21	07/22/23 17:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/17/23 09:21	07/22/23 17:10	1
Total TPH	<49.8	U	49.8	mg/Kg		07/17/23 09:21	07/22/23 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	07/17/23 09:21	07/22/23 17:10	1
o-Terphenyl	95		70 - 130	07/17/23 09:21	07/22/23 17:10	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.9		4.99	mg/Kg			07/11/23 18:29	1

Client Sample ID: FS02

Lab Sample ID: 890-4914-2

Date Collected: 07/07/23 10:30

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

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		07/11/23 12:32	07/12/23 02:21	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/11/23 12:32	07/12/23 02:21	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 02:21	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 02:21	1
o-Xylene	<0.00199	U *- *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 02:21	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 02:21	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS02

Lab Sample ID: 890-4914-2

Date Collected: 07/07/23 10:30

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/11/23 12:32	07/12/23 02:21	1
1,4-Difluorobenzene (Surr)	65	S1-	70 - 130	07/11/23 12:32	07/12/23 02:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/12/23 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/17/23 09:21	07/22/23 17:32	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/17/23 09:21	07/22/23 17:32	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/17/23 09:21	07/22/23 17:32	1
Total TPH	<50.5	U	50.5	mg/Kg		07/17/23 09:21	07/22/23 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	07/17/23 09:21	07/22/23 17:32	1
o-Terphenyl	109		70 - 130	07/17/23 09:21	07/22/23 17:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	137		4.98	mg/Kg			07/11/23 18:35	1

Client Sample ID: FS03

Lab Sample ID: 890-4914-3

Date Collected: 07/07/23 10:35

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/11/23 12:32	07/12/23 02:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/11/23 12:32	07/12/23 02:41	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		07/11/23 12:32	07/12/23 02:41	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402	mg/Kg		07/11/23 12:32	07/12/23 02:41	1
o-Xylene	<0.00201	U *- *1	0.00201	mg/Kg		07/11/23 12:32	07/12/23 02:41	1
Xylenes, Total	<0.00402	U *- *1	0.00402	mg/Kg		07/11/23 12:32	07/12/23 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	07/11/23 12:32	07/12/23 02:41	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	07/11/23 12:32	07/12/23 02:41	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			07/12/23 11:12	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS03

Lab Sample ID: 890-4914-3

Date Collected: 07/07/23 10:35

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		07/17/23 09:21	07/22/23 17:54	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		07/17/23 09:21	07/22/23 17:54	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/17/23 09:21	07/22/23 17:54	1
Total TPH	<50.1	U	50.1	mg/Kg		07/17/23 09:21	07/22/23 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	161	S1+	70 - 130	07/17/23 09:21	07/22/23 17:54	1
o-Terphenyl	139	S1+	70 - 130	07/17/23 09:21	07/22/23 17:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.8		4.96	mg/Kg			07/11/23 18:40	1

Client Sample ID: FS04

Lab Sample ID: 890-4914-4

Date Collected: 07/07/23 10:40

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

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		07/11/23 12:32	07/12/23 03:02	1
Toluene	0.00232		0.00199	mg/Kg		07/11/23 12:32	07/12/23 03:02	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 03:02	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 03:02	1
o-Xylene	<0.00199	U *- *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 03:02	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 03:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	07/11/23 12:32	07/12/23 03:02	1
1,4-Difluorobenzene (Surr)	71		70 - 130	07/11/23 12:32	07/12/23 03:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/12/23 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/17/23 09:21	07/22/23 18:16	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/17/23 09:21	07/22/23 18:16	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/17/23 09:21	07/22/23 18:16	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS04

Lab Sample ID: 890-4914-4

Date Collected: 07/07/23 10:40

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg		07/17/23 09:21	07/22/23 18:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130			07/17/23 09:21	07/22/23 18:16	1
o-Terphenyl	123		70 - 130			07/17/23 09:21	07/22/23 18:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	104		5.02	mg/Kg			07/11/23 18:45	1

Client Sample ID: FS05

Lab Sample ID: 890-4914-5

Date Collected: 07/07/23 10:45

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/11/23 12:32	07/12/23 05:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/11/23 12:32	07/12/23 05:05	1
Ethylbenzene	<0.00201	U *- *1	0.00201	mg/Kg		07/11/23 12:32	07/12/23 05:05	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402	mg/Kg		07/11/23 12:32	07/12/23 05:05	1
o-Xylene	<0.00201	U *- *1	0.00201	mg/Kg		07/11/23 12:32	07/12/23 05:05	1
Xylenes, Total	<0.00402	U *- *1	0.00402	mg/Kg		07/11/23 12:32	07/12/23 05:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			07/11/23 12:32	07/12/23 05:05	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130			07/11/23 12:32	07/12/23 05:05	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			07/12/23 11:12	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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/17/23 09:21	07/22/23 18:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/17/23 09:21	07/22/23 18:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/17/23 09:21	07/22/23 18:49	1
Total TPH	<50.0	U	50.0	mg/Kg		07/17/23 09:21	07/22/23 18:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/17/23 09:21	07/22/23 18:49	1
o-Terphenyl	103		70 - 130			07/17/23 09:21	07/22/23 18:49	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS05

Lab Sample ID: 890-4914-5

Date Collected: 07/07/23 10:45

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.5		4.97	mg/Kg			07/11/23 18:50	1

Client Sample ID: FS06

Lab Sample ID: 890-4914-6

Date Collected: 07/07/23 10:50

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 2.5

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		07/11/23 12:32	07/12/23 05:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/12/23 05:25	1
Ethylbenzene	<0.00200	U * *1	0.00200	mg/Kg		07/11/23 12:32	07/12/23 05:25	1
m-Xylene & p-Xylene	<0.00401	U * *1	0.00401	mg/Kg		07/11/23 12:32	07/12/23 05:25	1
o-Xylene	<0.00200	U * *1	0.00200	mg/Kg		07/11/23 12:32	07/12/23 05:25	1
Xylenes, Total	<0.00401	U * *1	0.00401	mg/Kg		07/11/23 12:32	07/12/23 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			07/11/23 12:32	07/12/23 05:25	1
1,4-Difluorobenzene (Surr)	72		70 - 130			07/11/23 12:32	07/12/23 05:25	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			07/12/23 11:12	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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		07/17/23 09:21	07/22/23 19:11	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		07/17/23 09:21	07/22/23 19:11	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/17/23 09:21	07/22/23 19:11	1
Total TPH	<50.1	U	50.1	mg/Kg		07/17/23 09:21	07/22/23 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	134	S1+	70 - 130			07/17/23 09:21	07/22/23 19:11	1
o-Terphenyl	114		70 - 130			07/17/23 09:21	07/22/23 19:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		5.00	mg/Kg			07/11/23 19:05	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS07

Lab Sample ID: 890-4914-7

Date Collected: 07/07/23 10:55

Matrix: Solid

Date Received: 07/07/23 14:57

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		07/11/23 12:32	07/12/23 05:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/12/23 05:46	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		07/11/23 12:32	07/12/23 05:46	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399	mg/Kg		07/11/23 12:32	07/12/23 05:46	1
o-Xylene	<0.00200	U *- *1	0.00200	mg/Kg		07/11/23 12:32	07/12/23 05:46	1
Xylenes, Total	<0.00399	U *- *1	0.00399	mg/Kg		07/11/23 12:32	07/12/23 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/11/23 12:32	07/12/23 05:46	1
1,4-Difluorobenzene (Surr)	73		70 - 130	07/11/23 12:32	07/12/23 05:46	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			07/12/23 11:12	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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/17/23 09:21	07/22/23 19:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/17/23 09:21	07/22/23 19:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/17/23 09:21	07/22/23 19:33	1
Total TPH	<50.0	U	50.0	mg/Kg		07/17/23 09:21	07/22/23 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	07/17/23 09:21	07/22/23 19:33	1
o-Terphenyl	101		70 - 130	07/17/23 09:21	07/22/23 19:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.3		4.99	mg/Kg			07/11/23 19:10	1

Client Sample ID: FS08

Lab Sample ID: 890-4914-8

Date Collected: 07/07/23 11:00

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/11/23 12:32	07/12/23 06:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/11/23 12:32	07/12/23 06:06	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 06:06	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 06:06	1
o-Xylene	<0.00199	U *- *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 06:06	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 06:06	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS08

Lab Sample ID: 890-4914-8

Date Collected: 07/07/23 11:00

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	07/11/23 12:32	07/12/23 06:06	1
1,4-Difluorobenzene (Surr)	72		70 - 130	07/11/23 12:32	07/12/23 06:06	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			07/12/23 11:12	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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 19:56	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 19:56	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 19:56	1
Total TPH	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	141	S1+	70 - 130	07/17/23 09:21	07/22/23 19:56	1
o-Terphenyl	119		70 - 130	07/17/23 09:21	07/22/23 19:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.8		5.01	mg/Kg			07/11/23 19:26	1

Client Sample ID: FS09

Lab Sample ID: 890-4914-9

Date Collected: 07/07/23 12:05

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

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		07/11/23 12:32	07/12/23 06:27	1
Toluene	<0.00198	U	0.00198	mg/Kg		07/11/23 12:32	07/12/23 06:27	1
Ethylbenzene	<0.00198	U *- *1	0.00198	mg/Kg		07/11/23 12:32	07/12/23 06:27	1
m-Xylene & p-Xylene	<0.00396	U *- *1	0.00396	mg/Kg		07/11/23 12:32	07/12/23 06:27	1
o-Xylene	<0.00198	U *- *1	0.00198	mg/Kg		07/11/23 12:32	07/12/23 06:27	1
Xylenes, Total	<0.00396	U *- *1	0.00396	mg/Kg		07/11/23 12:32	07/12/23 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	07/11/23 12:32	07/12/23 06:27	1
1,4-Difluorobenzene (Surr)	80		70 - 130	07/11/23 12:32	07/12/23 06:27	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			07/12/23 11:12	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS09

Lab Sample ID: 890-4914-9

Date Collected: 07/07/23 12:05

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 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			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 20:18	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 20:18	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 20:18	1
Total TPH	<50.2	U	50.2	mg/Kg		07/17/23 09:21	07/22/23 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	142	S1+	70 - 130	07/17/23 09:21	07/22/23 20:18	1
o-Terphenyl	124		70 - 130	07/17/23 09:21	07/22/23 20:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.4		5.03	mg/Kg			07/11/23 19:31	1

Client Sample ID: FS10

Lab Sample ID: 890-4914-10

Date Collected: 07/07/23 12:10

Matrix: Solid

Date Received: 07/07/23 14:57

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		07/11/23 12:32	07/12/23 06:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/12/23 06:47	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		07/11/23 12:32	07/12/23 06:47	1
m-Xylene & p-Xylene	<0.00400	U *- *1	0.00400	mg/Kg		07/11/23 12:32	07/12/23 06:47	1
o-Xylene	<0.00200	U *- *1	0.00200	mg/Kg		07/11/23 12:32	07/12/23 06:47	1
Xylenes, Total	<0.00400	U *- *1	0.00400	mg/Kg		07/11/23 12:32	07/12/23 06:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/11/23 12:32	07/12/23 06:47	1
1,4-Difluorobenzene (Surr)	74		70 - 130	07/11/23 12:32	07/12/23 06:47	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			07/12/23 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/24/23 14:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		07/17/23 09:21	07/22/23 20:41	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/17/23 09:21	07/22/23 20:41	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/17/23 09:21	07/22/23 20:41	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS10

Lab Sample ID: 890-4914-10

Date Collected: 07/07/23 12:10

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg		07/17/23 09:21	07/22/23 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			07/17/23 09:21	07/22/23 20:41	1
o-Terphenyl	104		70 - 130			07/17/23 09:21	07/22/23 20:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.8		5.00	mg/Kg			07/11/23 19:36	1

Client Sample ID: SS05A

Lab Sample ID: 890-4914-11

Date Collected: 07/07/23 12:15

Matrix: Solid

Date Received: 07/07/23 14:57

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		07/11/23 12:32	07/12/23 07:07	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/11/23 12:32	07/12/23 07:07	1
Ethylbenzene	<0.00202	U * - *1	0.00202	mg/Kg		07/11/23 12:32	07/12/23 07:07	1
m-Xylene & p-Xylene	<0.00403	U * - *1	0.00403	mg/Kg		07/11/23 12:32	07/12/23 07:07	1
o-Xylene	<0.00202	U * - *1	0.00202	mg/Kg		07/11/23 12:32	07/12/23 07:07	1
Xylenes, Total	<0.00403	U * - *1	0.00403	mg/Kg		07/11/23 12:32	07/12/23 07:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			07/11/23 12:32	07/12/23 07:07	1
1,4-Difluorobenzene (Surr)	77		70 - 130			07/11/23 12:32	07/12/23 07:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/12/23 11:12	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			07/17/23 13:24	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		07/12/23 12:11	07/14/23 17:19	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		07/12/23 12:11	07/14/23 17:19	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/12/23 12:11	07/14/23 17:19	1
Total TPH	<50.1	U	50.1	mg/Kg		07/12/23 12:11	07/14/23 17:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			07/12/23 12:11	07/14/23 17:19	1
o-Terphenyl	99		70 - 130			07/12/23 12:11	07/14/23 17:19	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS05A

Lab Sample ID: 890-4914-11

Date Collected: 07/07/23 12:15

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.2		5.01	mg/Kg			07/11/23 19:41	1

Client Sample ID: SS06A

Lab Sample ID: 890-4914-12

Date Collected: 07/07/23 12:20

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/11/23 12:32	07/12/23 07:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/11/23 12:32	07/12/23 07:28	1
Ethylbenzene	<0.00199	U * *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 07:28	1
m-Xylene & p-Xylene	<0.00398	U * *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 07:28	1
o-Xylene	<0.00199	U * *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 07:28	1
Xylenes, Total	<0.00398	U * *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 07:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130			07/11/23 12:32	07/12/23 07:28	1
1,4-Difluorobenzene (Surr)	87		70 - 130			07/11/23 12:32	07/12/23 07:28	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			07/12/23 11:12	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			07/17/23 13:24	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		07/12/23 12:11	07/14/23 17:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/12/23 12:11	07/14/23 17:41	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/12/23 12:11	07/14/23 17:41	1
Total TPH	<49.8	U	49.8	mg/Kg		07/12/23 12:11	07/14/23 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			07/12/23 12:11	07/14/23 17:41	1
o-Terphenyl	107		70 - 130			07/12/23 12:11	07/14/23 17:41	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.9		4.99	mg/Kg			07/11/23 19:46	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS07A

Lab Sample ID: 890-4914-13

Date Collected: 07/07/23 12:25

Matrix: Solid

Date Received: 07/07/23 14:57

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		07/11/23 12:32	07/12/23 07:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/12/23 07:49	1
Ethylbenzene	<0.00200	U *- *1	0.00200	mg/Kg		07/11/23 12:32	07/12/23 07:49	1
m-Xylene & p-Xylene	<0.00399	U *- *1	0.00399	mg/Kg		07/11/23 12:32	07/12/23 07:49	1
o-Xylene	<0.00200	U *- *1	0.00200	mg/Kg		07/11/23 12:32	07/12/23 07:49	1
Xylenes, Total	<0.00399	U *- *1	0.00399	mg/Kg		07/11/23 12:32	07/12/23 07:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/11/23 12:32	07/12/23 07:49	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	07/11/23 12:32	07/12/23 07:49	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			07/12/23 11:12	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			07/17/23 13:24	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		07/12/23 12:11	07/14/23 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/12/23 12:11	07/14/23 18:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/12/23 12:11	07/14/23 18:03	1
Total TPH	<49.9	U	49.9	mg/Kg		07/12/23 12:11	07/14/23 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	07/12/23 12:11	07/14/23 18:03	1
o-Terphenyl	110		70 - 130	07/12/23 12:11	07/14/23 18:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.5		4.99	mg/Kg			07/11/23 19:52	1

Client Sample ID: SS08A

Lab Sample ID: 890-4914-14

Date Collected: 07/07/23 12:30

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/11/23 12:32	07/12/23 08:09	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/11/23 12:32	07/12/23 08:09	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 08:09	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 08:09	1
o-Xylene	<0.00199	U *- *1	0.00199	mg/Kg		07/11/23 12:32	07/12/23 08:09	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		07/11/23 12:32	07/12/23 08:09	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS08A

Lab Sample ID: 890-4914-14

Date Collected: 07/07/23 12:30

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/11/23 12:32	07/12/23 08:09	1
1,4-Difluorobenzene (Surr)	71		70 - 130	07/11/23 12:32	07/12/23 08:09	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			07/12/23 11:12	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			07/17/23 13:24	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		07/12/23 12:11	07/15/23 07:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/12/23 12:11	07/15/23 07:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/12/23 12:11	07/15/23 07:36	1
Total TPH	<49.8	U	49.8	mg/Kg		07/12/23 12:11	07/15/23 07:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130	07/12/23 12:11	07/15/23 07:36	1
o-Terphenyl	93		70 - 130	07/12/23 12:11	07/15/23 07:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	81.7		4.98	mg/Kg			07/11/23 19:57	1

Client Sample ID: SS09A

Lab Sample ID: 890-4914-15

Date Collected: 07/07/23 12:35

Matrix: Solid

Date Received: 07/07/23 14:57

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		07/11/23 13:40	07/12/23 05:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 05:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 05:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/11/23 13:40	07/12/23 05:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 05:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/11/23 13:40	07/12/23 05:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	07/11/23 13:40	07/12/23 05:44	1
1,4-Difluorobenzene (Surr)	97		70 - 130	07/11/23 13:40	07/12/23 05:44	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			07/12/23 14:48	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS09A

Lab Sample ID: 890-4914-15

Date Collected: 07/07/23 12:35

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 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			07/17/23 13:24	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		07/12/23 12:11	07/15/23 08:28	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		07/12/23 12:11	07/15/23 08:28	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		07/12/23 12:11	07/15/23 08:28	1
Total TPH	<49.7	U	49.7	mg/Kg		07/12/23 12:11	07/15/23 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	07/12/23 12:11	07/15/23 08:28	1
o-Terphenyl	100		70 - 130	07/12/23 12:11	07/15/23 08:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102	F1	5.00	mg/Kg			07/11/23 13:46	1

Client Sample ID: SW01

Lab Sample ID: 890-4914-16

Date Collected: 07/07/23 12:40

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/11/23 13:40	07/12/23 06:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/11/23 13:40	07/12/23 06:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/11/23 13:40	07/12/23 06:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/11/23 13:40	07/12/23 06:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/11/23 13:40	07/12/23 06:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/11/23 13:40	07/12/23 06:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/11/23 13:40	07/12/23 06:04	1
1,4-Difluorobenzene (Surr)	103		70 - 130	07/11/23 13:40	07/12/23 06:04	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			07/12/23 14:48	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			07/17/23 13:24	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		07/12/23 12:11	07/15/23 08:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/12/23 12:11	07/15/23 08:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/12/23 12:11	07/15/23 08:50	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SW01

Lab Sample ID: 890-4914-16

Date Collected: 07/07/23 12:40

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		07/12/23 12:11	07/15/23 08:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/12/23 12:11	07/15/23 08:50	1
o-Terphenyl	101		70 - 130			07/12/23 12:11	07/15/23 08:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.9		5.03	mg/Kg			07/11/23 14:04	1

Client Sample ID: SW02

Lab Sample ID: 890-4914-17

Date Collected: 07/07/23 12:45

Matrix: Solid

Date Received: 07/07/23 14:57

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/11/23 13:40	07/12/23 06:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/11/23 13:40	07/12/23 06:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/11/23 13:40	07/12/23 06:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/11/23 13:40	07/12/23 06:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/11/23 13:40	07/12/23 06:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/11/23 13:40	07/12/23 06:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			07/11/23 13:40	07/12/23 06:25	1
1,4-Difluorobenzene (Surr)	100		70 - 130			07/11/23 13:40	07/12/23 06:25	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			07/12/23 14:48	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			07/17/23 13:24	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		07/12/23 12:11	07/15/23 09:11	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		07/12/23 12:11	07/15/23 09:11	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		07/12/23 12:11	07/15/23 09:11	1
Total TPH	<50.1	U	50.1	mg/Kg		07/12/23 12:11	07/15/23 09:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			07/12/23 12:11	07/15/23 09:11	1
o-Terphenyl	101		70 - 130			07/12/23 12:11	07/15/23 09:11	1

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Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SW02
Date Collected: 07/07/23 12:45
Date Received: 07/07/23 14:57
Sample Depth: 1

Lab Sample ID: 890-4914-17
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	55.8		5.02	mg/Kg			07/11/23 14:10	1	

Surrogate Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-4913-A-1-B MS	Matrix Spike	106	104
890-4913-A-1-B MS	Matrix Spike	120	83
890-4913-A-1-C MSD	Matrix Spike Duplicate	119	95
890-4913-A-1-C MSD	Matrix Spike Duplicate	137 S1+	63 S1-
890-4914-1	FS01	88	86
890-4914-2	FS02	95	65 S1-
890-4914-3	FS03	93	69 S1-
890-4914-4	FS04	101	71
890-4914-5	FS05	89	67 S1-
890-4914-6	FS06	93	72
890-4914-7	FS07	97	73
890-4914-8	FS08	82	72
890-4914-9	FS09	81	80
890-4914-10	FS10	92	74
890-4914-11	SS05A	91	77
890-4914-12	SS06A	79	87
890-4914-13	SS07A	92	68 S1-
890-4914-14	SS08A	92	71
890-4914-15	SS09A	82	97
890-4914-16	SW01	92	103
890-4914-17	SW02	93	100
890-4915-A-1-C MS	Matrix Spike	88	110
890-4915-A-1-D MSD	Matrix Spike Duplicate	90	106
LCS 880-57410/1-A	Lab Control Sample	102	107
LCS 880-57410/1-A	Lab Control Sample	130	64 S1-
LCS 880-57416/1-A	Lab Control Sample	91	100
LCSD 880-57410/2-A	Lab Control Sample Dup	48 S1-	94
LCSD 880-57410/2-A	Lab Control Sample Dup	138 S1+	80
LCSD 880-57416/2-A	Lab Control Sample Dup	89	105
MB 880-57308/5-A	Method Blank	76	89
MB 880-57324/5-A	Method Blank	97	120
MB 880-57410/5-A	Method Blank	78	68 S1-
MB 880-57410/5-A	Method Blank	78	88
MB 880-57416/5-A	Method Blank	98	119

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	OTPH1
890-4913-A-1-F MS	Matrix Spike		
890-4913-A-1-G MSD	Matrix Spike Duplicate		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Surrogate Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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	OTPH1
		(70-130)	(70-130)
890-4914-1	FS01	111	95
890-4914-2	FS02	128	109
890-4914-3	FS03	161 S1+	139 S1+
890-4914-4	FS04	145 S1+	123
890-4914-5	FS05	118	103
890-4914-6	FS06	134 S1+	114
890-4914-7	FS07	117	101
890-4914-8	FS08	141 S1+	119
890-4914-9	FS09	142 S1+	124
890-4914-10	FS10	124	104
890-4914-11	SS05A	117	99
890-4914-12	SS06A	131 S1+	107
890-4914-13	SS07A	133 S1+	110
890-4914-14	SS08A	110	93
890-4914-15	SS09A	118	100
890-4914-16	SW01	118	101
890-4914-17	SW02	119	101
890-4915-A-1-F MS	Matrix Spike	140 S1+	103
890-4915-A-1-G MSD	Matrix Spike Duplicate	124	89
LCS 880-57501/2-A	Lab Control Sample	106	92
LCS 880-57801/2-A	Lab Control Sample	95	93
LCSD 880-57501/3-A	Lab Control Sample Dup	103	91
LCSD 880-57801/3-A	Lab Control Sample Dup	111	98
MB 880-57501/1-A	Method Blank	146 S1+	122
MB 880-57801/1-A	Method Blank	161 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57308/5-A

Matrix: Solid

Analysis Batch: 57379

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57308

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/10/23 12:59	07/11/23 13:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/10/23 12:59	07/11/23 13:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/10/23 12:59	07/11/23 13:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/10/23 12:59	07/11/23 13:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/10/23 12:59	07/11/23 13:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/10/23 12:59	07/11/23 13:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	07/10/23 12:59	07/11/23 13:22	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/10/23 12:59	07/11/23 13:22	1

Lab Sample ID: MB 880-57324/5-A

Matrix: Solid

Analysis Batch: 57381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57324

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/10/23 14:17	07/11/23 12:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/10/23 14:17	07/11/23 12:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/10/23 14:17	07/11/23 12:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/10/23 14:17	07/11/23 12:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/10/23 14:17	07/11/23 12:23	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/10/23 14:17	07/11/23 12:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	07/10/23 14:17	07/11/23 12:23	1
1,4-Difluorobenzene (Surr)	120		70 - 130	07/10/23 14:17	07/11/23 12:23	1

Lab Sample ID: MB 880-57410/5-A

Matrix: Solid

Analysis Batch: 57379

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57410

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/12/23 00:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/12/23 00:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/12/23 00:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/11/23 12:32	07/12/23 00:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/12/23 00:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/11/23 12:32	07/12/23 00:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	07/11/23 12:32	07/12/23 00:17	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130	07/11/23 12:32	07/12/23 00:17	1

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: MB 880-57410/5-A

Matrix: Solid

Analysis Batch: 57560

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57410

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/13/23 12:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/13/23 12:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/13/23 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/11/23 12:32	07/13/23 12:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/23 12:32	07/13/23 12:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/11/23 12:32	07/13/23 12:16	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	78		70 - 130	07/11/23 12:32	07/13/23 12:16	1
1,4-Difluorobenzene (Surr)	88		70 - 130	07/11/23 12:32	07/13/23 12:16	1

Lab Sample ID: LCS 880-57410/1-A

Matrix: Solid

Analysis Batch: 57379

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08469		mg/Kg		85	70 - 130
Toluene	0.100	0.09997		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.08975		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1781		mg/Kg		89	70 - 130
o-Xylene	0.100	0.09104		mg/Kg		91	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: LCS 880-57410/1-A

Matrix: Solid

Analysis Batch: 57560

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08216		mg/Kg		82	70 - 130
Toluene	0.100	0.07970		mg/Kg		80	70 - 130
Ethylbenzene	0.100	0.08950		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1673		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08622		mg/Kg		86	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	130		70 - 130
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130

Lab Sample ID: LCSD 880-57410/2-A

Matrix: Solid

Analysis Batch: 57379

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.07869		mg/Kg		79	70 - 130	7	35
Toluene	0.100	0.07145		mg/Kg		71	70 - 130	33	35

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: LCSD 880-57410/2-A

Matrix: Solid

Analysis Batch: 57379

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Ethylbenzene	0.100	0.06092	*- *1	mg/Kg		61	70 - 130		38	35
m-Xylene & p-Xylene	0.200	0.1078	*- *1	mg/Kg		54	70 - 130		49	35
o-Xylene	0.100	0.05119	*- *1	mg/Kg		51	70 - 130		56	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	48	S1-	70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-57410/2-A

Matrix: Solid

Analysis Batch: 57560

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57410

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Benzene	0.100	0.09483		mg/Kg		95	70 - 130		14	35
Toluene	0.100	0.1011		mg/Kg		101	70 - 130		24	35
Ethylbenzene	0.100	0.1066		mg/Kg		107	70 - 130		17	35
m-Xylene & p-Xylene	0.200	0.1963		mg/Kg		98	70 - 130		16	35
o-Xylene	0.100	0.09878		mg/Kg		99	70 - 130		14	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: 890-4913-A-1-B MS

Matrix: Solid

Analysis Batch: 57379

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00198	U F1	0.0994	0.06309	F1	mg/Kg		63	70 - 130	
Toluene	<0.00198	U F1	0.0994	0.06656	F1	mg/Kg		67	70 - 130	
Ethylbenzene	<0.00198	U *- *1 F1	0.0994	0.05609	F1	mg/Kg		56	70 - 130	
m-Xylene & p-Xylene	<0.00396	U *- *1 F1	0.199	0.1073	F1	mg/Kg		54	70 - 130	
o-Xylene	<0.00198	U *- *1 F1	0.0994	0.05310	F1	mg/Kg		53	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-4913-A-1-B MS

Matrix: Solid

Analysis Batch: 57560

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57410

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00198	U	0.0994	0.1015		mg/Kg		102	70 - 130	
Toluene	<0.00198	U	0.0994	0.09426		mg/Kg		95	70 - 130	
Ethylbenzene	<0.00198	U	0.0994	0.09460		mg/Kg		95	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.199	0.1706		mg/Kg		86	70 - 130	
o-Xylene	<0.00198	U	0.0994	0.08990		mg/Kg		90	70 - 130	

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 890-4913-A-1-C MSD

Matrix: Solid

Analysis Batch: 57379

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.0998	0.05752	F1	mg/Kg		58	70 - 130	9	35
Toluene	<0.00198	U F1	0.0998	0.06071	F1	mg/Kg		61	70 - 130	9	35
Ethylbenzene	<0.00198	U *- *1 F1	0.0998	0.05512	F1	mg/Kg		55	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U *- *1 F1	0.200	0.1031	F1	mg/Kg		52	70 - 130	4	35
o-Xylene	<0.00198	U *- *1 F1	0.0998	0.05233	F1	mg/Kg		52	70 - 130	1	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 890-4913-A-1-C MSD

Matrix: Solid

Analysis Batch: 57560

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57410

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1105		mg/Kg		111	70 - 130	8	35
Toluene	<0.00198	U	0.0998	0.1116		mg/Kg		112	70 - 130	17	35
Ethylbenzene	<0.00198	U	0.0998	0.09749		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1770		mg/Kg		89	70 - 130	4	35
o-Xylene	<0.00198	U	0.0998	0.09498		mg/Kg		95	70 - 130	6	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130
1,4-Difluorobenzene (Surr)	63	S1-	70 - 130

Lab Sample ID: MB 880-57416/5-A

Matrix: Solid

Analysis Batch: 57381

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57416

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 00:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 00:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 00:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/11/23 13:40	07/12/23 00:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/11/23 13:40	07/12/23 00:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/11/23 13:40	07/12/23 00:21	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	98		70 - 130	07/11/23 13:40	07/12/23 00:21	1		
1,4-Difluorobenzene (Surr)	119		70 - 130	07/11/23 13:40	07/12/23 00:21	1		

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: LCS 880-57416/1-A

Matrix: Solid

Analysis Batch: 57381

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57416

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09913		mg/Kg		99	70 - 130
Toluene	0.100	0.1184		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.09377		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1784		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08677		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-57416/2-A

Matrix: Solid

Analysis Batch: 57381

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57416

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1034		mg/Kg		103	70 - 130	4	35
Toluene	0.100	0.1128		mg/Kg		113	70 - 130	5	35
Ethylbenzene	0.100	0.08936		mg/Kg		89	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1669		mg/Kg		83	70 - 130	7	35
o-Xylene	0.100	0.08307		mg/Kg		83	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-4915-A-1-C MS

Matrix: Solid

Analysis Batch: 57381

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57416

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00198	U	0.0994	0.09105		mg/Kg		92	70 - 130
Toluene	<0.00198	U	0.0994	0.08376		mg/Kg		84	70 - 130
Ethylbenzene	<0.00198	U F1	0.0994	0.05554	F1	mg/Kg		56	70 - 130
m-Xylene & p-Xylene	<0.00396	U F1	0.199	0.1070	F1	mg/Kg		54	70 - 130
o-Xylene	<0.00198	U F1	0.0994	0.05366	F1	mg/Kg		54	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-4915-A-1-D MSD

Matrix: Solid

Analysis Batch: 57381

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.09469		mg/Kg		95	70 - 130	4	35
Toluene	<0.00198	U	0.0998	0.08974		mg/Kg		90	70 - 130	7	35
Ethylbenzene	<0.00198	U F1	0.0998	0.06132	F1	mg/Kg		61	70 - 130	10	35

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: 890-4915-A-1-D MSD

Matrix: Solid

Analysis Batch: 57381

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57416

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.1226	F1	mg/Kg		61	70 - 130	14	35
o-Xylene	<0.00198	U F1	0.0998	0.06110	F1	mg/Kg		61	70 - 130	13	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	90		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								

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

Lab Sample ID: MB 880-57501/1-A

Matrix: Solid

Analysis Batch: 57664

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57501

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		07/12/23 12:11	07/14/23 07:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/12/23 12:11	07/14/23 07:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/12/23 12:11	07/14/23 07:48	1
Total TPH	<50.0	U	50.0	mg/Kg		07/12/23 12:11	07/14/23 07:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	146	S1+	70 - 130			07/12/23 12:11	07/14/23 07:48	1
o-Terphenyl	122		70 - 130			07/12/23 12:11	07/14/23 07:48	1

Lab Sample ID: LCS 880-57501/2-A

Matrix: Solid

Analysis Batch: 57664

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1156		mg/Kg		116	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	990.1		mg/Kg		99	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	106		70 - 130					
o-Terphenyl	92		70 - 130					

Lab Sample ID: LCSD 880-57501/3-A

Matrix: Solid

Analysis Batch: 57664

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57501

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1034		mg/Kg		103	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	1000	873.4		mg/Kg		87	70 - 130	13	20

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: LCSD 880-57501/3-A

Matrix: Solid

Analysis Batch: 57664

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 57501

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-4915-A-1-F MS

Matrix: Solid

Analysis Batch: 57664

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 57501

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	1142		mg/Kg		110	70 - 130	
Diesel Range Organics (Over C10-C28)	164		1000	1252		mg/Kg		108	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	140	S1+	70 - 130							
o-Terphenyl	103		70 - 130							

Lab Sample ID: 890-4915-A-1-G MSD

Matrix: Solid

Analysis Batch: 57664

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 57501

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	999	1002		mg/Kg		97	70 - 130	13	20	
Diesel Range Organics (Over C10-C28)	164		999	1081		mg/Kg		92	70 - 130	15	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	124		70 - 130									
o-Terphenyl	89		70 - 130									

Lab Sample ID: MB 880-57801/1-A

Matrix: Solid

Analysis Batch: 58259

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57801

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/17/23 09:18	07/22/23 09:08	1		
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/17/23 09:18	07/22/23 09:08	1		
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/17/23 09:18	07/22/23 09:08	1		
Total TPH	<50.0	U	50.0	mg/Kg		07/17/23 09:18	07/22/23 09:08	1		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac		
1-Chlorooctane	161	S1+	70 - 130			07/17/23 09:18	07/22/23 09:08	1		
o-Terphenyl	139	S1+	70 - 130			07/17/23 09:18	07/22/23 09:08	1		

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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

Lab Sample ID: LCS 880-57801/2-A
Matrix: Solid
Analysis Batch: 58259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 57801

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	927.0		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	919.7		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: LCSD 880-57801/3-A
Matrix: Solid
Analysis Batch: 58259

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 57801

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1097		mg/Kg		110	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	1000	1045		mg/Kg		105	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-4913-A-1-F MS
Matrix: Solid
Analysis Batch: 58259

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 57801

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane			
o-Terphenyl			

Lab Sample ID: 890-4913-A-1-G MSD
Matrix: Solid
Analysis Batch: 58259

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 57801

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane			
o-Terphenyl			

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57317/1-A
Matrix: Solid
Analysis Batch: 57418

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/11/23 17:23	1

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-57317/2-A

Matrix: Solid

Analysis Batch: 57418

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	252.5		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-57317/3-A

Matrix: Solid

Analysis Batch: 57418

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	252.9		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 890-4914-5 MS

Matrix: Solid

Analysis Batch: 57418

Client Sample ID: FS05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	67.5		249	324.7		mg/Kg		103	90 - 110

Lab Sample ID: 890-4914-5 MSD

Matrix: Solid

Analysis Batch: 57418

Client Sample ID: FS05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	67.5		249	325.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: MB 880-57365/1-A

Matrix: Solid

Analysis Batch: 57420

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/11/23 13:27	1

Lab Sample ID: LCS 880-57365/2-A

Matrix: Solid

Analysis Batch: 57420

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	246.6		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-57365/3-A

Matrix: Solid

Analysis Batch: 57420

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	246.5		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 890-4914-15 MS

Matrix: Solid

Analysis Batch: 57420

Client Sample ID: SS09A

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	102	F1	250	323.7	F1	mg/Kg		89	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4914-15 MSD							Client Sample ID: SS09A					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 57420												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	102	F1	250	322.5	F1	mg/Kg		88	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

GC VOA

Prep Batch: 57308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57308/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 57324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57324/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 57379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	8021B	57410
890-4914-2	FS02	Total/NA	Solid	8021B	57410
890-4914-3	FS03	Total/NA	Solid	8021B	57410
890-4914-4	FS04	Total/NA	Solid	8021B	57410
890-4914-5	FS05	Total/NA	Solid	8021B	57410
890-4914-6	FS06	Total/NA	Solid	8021B	57410
890-4914-7	FS07	Total/NA	Solid	8021B	57410
890-4914-8	FS08	Total/NA	Solid	8021B	57410
890-4914-9	FS09	Total/NA	Solid	8021B	57410
890-4914-10	FS10	Total/NA	Solid	8021B	57410
890-4914-11	SS05A	Total/NA	Solid	8021B	57410
890-4914-12	SS06A	Total/NA	Solid	8021B	57410
890-4914-13	SS07A	Total/NA	Solid	8021B	57410
890-4914-14	SS08A	Total/NA	Solid	8021B	57410
MB 880-57308/5-A	Method Blank	Total/NA	Solid	8021B	57308
MB 880-57410/5-A	Method Blank	Total/NA	Solid	8021B	57410
LCS 880-57410/1-A	Lab Control Sample	Total/NA	Solid	8021B	57410
LCSD 880-57410/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57410
890-4913-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	57410
890-4913-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57410

Analysis Batch: 57381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-15	SS09A	Total/NA	Solid	8021B	57416
890-4914-16	SW01	Total/NA	Solid	8021B	57416
890-4914-17	SW02	Total/NA	Solid	8021B	57416
MB 880-57324/5-A	Method Blank	Total/NA	Solid	8021B	57324
MB 880-57416/5-A	Method Blank	Total/NA	Solid	8021B	57416
LCS 880-57416/1-A	Lab Control Sample	Total/NA	Solid	8021B	57416
LCSD 880-57416/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57416
890-4915-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	57416
890-4915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57416

Prep Batch: 57410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	5035	
890-4914-2	FS02	Total/NA	Solid	5035	
890-4914-3	FS03	Total/NA	Solid	5035	
890-4914-4	FS04	Total/NA	Solid	5035	
890-4914-5	FS05	Total/NA	Solid	5035	
890-4914-6	FS06	Total/NA	Solid	5035	
890-4914-7	FS07	Total/NA	Solid	5035	
890-4914-8	FS08	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

GC VOA (Continued)

Prep Batch: 57410 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-9	FS09	Total/NA	Solid	5035	
890-4914-10	FS10	Total/NA	Solid	5035	
890-4914-11	SS05A	Total/NA	Solid	5035	
890-4914-12	SS06A	Total/NA	Solid	5035	
890-4914-13	SS07A	Total/NA	Solid	5035	
890-4914-14	SS08A	Total/NA	Solid	5035	
MB 880-57410/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57410/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57410/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4913-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4913-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 57416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-15	SS09A	Total/NA	Solid	5035	
890-4914-16	SW01	Total/NA	Solid	5035	
890-4914-17	SW02	Total/NA	Solid	5035	
MB 880-57416/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57416/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57416/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4915-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4915-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 57491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	Total BTEX	
890-4914-2	FS02	Total/NA	Solid	Total BTEX	
890-4914-3	FS03	Total/NA	Solid	Total BTEX	
890-4914-4	FS04	Total/NA	Solid	Total BTEX	
890-4914-5	FS05	Total/NA	Solid	Total BTEX	
890-4914-6	FS06	Total/NA	Solid	Total BTEX	
890-4914-7	FS07	Total/NA	Solid	Total BTEX	
890-4914-8	FS08	Total/NA	Solid	Total BTEX	
890-4914-9	FS09	Total/NA	Solid	Total BTEX	
890-4914-10	FS10	Total/NA	Solid	Total BTEX	
890-4914-11	SS05A	Total/NA	Solid	Total BTEX	
890-4914-12	SS06A	Total/NA	Solid	Total BTEX	
890-4914-13	SS07A	Total/NA	Solid	Total BTEX	
890-4914-14	SS08A	Total/NA	Solid	Total BTEX	
890-4914-15	SS09A	Total/NA	Solid	Total BTEX	
890-4914-16	SW01	Total/NA	Solid	Total BTEX	
890-4914-17	SW02	Total/NA	Solid	Total BTEX	

Analysis Batch: 57560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57410/5-A	Method Blank	Total/NA	Solid	8021B	57410
LCS 880-57410/1-A	Lab Control Sample	Total/NA	Solid	8021B	57410
LCSD 880-57410/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57410
890-4913-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	57410
890-4913-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	57410

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QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

GC Semi VOA

Prep Batch: 57501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-11	SS05A	Total/NA	Solid	8015NM Prep	
890-4914-12	SS06A	Total/NA	Solid	8015NM Prep	
890-4914-13	SS07A	Total/NA	Solid	8015NM Prep	
890-4914-14	SS08A	Total/NA	Solid	8015NM Prep	
890-4914-15	SS09A	Total/NA	Solid	8015NM Prep	
890-4914-16	SW01	Total/NA	Solid	8015NM Prep	
890-4914-17	SW02	Total/NA	Solid	8015NM Prep	
MB 880-57501/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57501/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4915-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4915-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-11	SS05A	Total/NA	Solid	8015B NM	57501
890-4914-12	SS06A	Total/NA	Solid	8015B NM	57501
890-4914-13	SS07A	Total/NA	Solid	8015B NM	57501
890-4914-14	SS08A	Total/NA	Solid	8015B NM	57501
890-4914-15	SS09A	Total/NA	Solid	8015B NM	57501
890-4914-16	SW01	Total/NA	Solid	8015B NM	57501
890-4914-17	SW02	Total/NA	Solid	8015B NM	57501
MB 880-57501/1-A	Method Blank	Total/NA	Solid	8015B NM	57501
LCS 880-57501/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57501
LCSD 880-57501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57501
890-4915-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	57501
890-4915-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57501

Prep Batch: 57801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	8015NM Prep	
890-4914-2	FS02	Total/NA	Solid	8015NM Prep	
890-4914-3	FS03	Total/NA	Solid	8015NM Prep	
890-4914-4	FS04	Total/NA	Solid	8015NM Prep	
890-4914-5	FS05	Total/NA	Solid	8015NM Prep	
890-4914-6	FS06	Total/NA	Solid	8015NM Prep	
890-4914-7	FS07	Total/NA	Solid	8015NM Prep	
890-4914-8	FS08	Total/NA	Solid	8015NM Prep	
890-4914-9	FS09	Total/NA	Solid	8015NM Prep	
890-4914-10	FS10	Total/NA	Solid	8015NM Prep	
MB 880-57801/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-57801/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-57801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4913-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4913-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 57842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	8015 NM	
890-4914-2	FS02	Total/NA	Solid	8015 NM	
890-4914-3	FS03	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

GC Semi VOA (Continued)

Analysis Batch: 57842 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-4	FS04	Total/NA	Solid	8015 NM	
890-4914-5	FS05	Total/NA	Solid	8015 NM	
890-4914-6	FS06	Total/NA	Solid	8015 NM	
890-4914-7	FS07	Total/NA	Solid	8015 NM	
890-4914-8	FS08	Total/NA	Solid	8015 NM	
890-4914-9	FS09	Total/NA	Solid	8015 NM	
890-4914-10	FS10	Total/NA	Solid	8015 NM	
890-4914-11	SS05A	Total/NA	Solid	8015 NM	
890-4914-12	SS06A	Total/NA	Solid	8015 NM	
890-4914-13	SS07A	Total/NA	Solid	8015 NM	
890-4914-14	SS08A	Total/NA	Solid	8015 NM	
890-4914-15	SS09A	Total/NA	Solid	8015 NM	
890-4914-16	SW01	Total/NA	Solid	8015 NM	
890-4914-17	SW02	Total/NA	Solid	8015 NM	

Analysis Batch: 58259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Total/NA	Solid	8015B NM	57801
890-4914-2	FS02	Total/NA	Solid	8015B NM	57801
890-4914-3	FS03	Total/NA	Solid	8015B NM	57801
890-4914-4	FS04	Total/NA	Solid	8015B NM	57801
890-4914-5	FS05	Total/NA	Solid	8015B NM	57801
890-4914-6	FS06	Total/NA	Solid	8015B NM	57801
890-4914-7	FS07	Total/NA	Solid	8015B NM	57801
890-4914-8	FS08	Total/NA	Solid	8015B NM	57801
890-4914-9	FS09	Total/NA	Solid	8015B NM	57801
890-4914-10	FS10	Total/NA	Solid	8015B NM	57801
MB 880-57801/1-A	Method Blank	Total/NA	Solid	8015B NM	57801
LCS 880-57801/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57801
LCSD 880-57801/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57801
890-4913-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	57801
890-4913-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	57801

HPLC/IC

Leach Batch: 57317

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Soluble	Solid	DI Leach	
890-4914-2	FS02	Soluble	Solid	DI Leach	
890-4914-3	FS03	Soluble	Solid	DI Leach	
890-4914-4	FS04	Soluble	Solid	DI Leach	
890-4914-5	FS05	Soluble	Solid	DI Leach	
890-4914-6	FS06	Soluble	Solid	DI Leach	
890-4914-7	FS07	Soluble	Solid	DI Leach	
890-4914-8	FS08	Soluble	Solid	DI Leach	
890-4914-9	FS09	Soluble	Solid	DI Leach	
890-4914-10	FS10	Soluble	Solid	DI Leach	
890-4914-11	SS05A	Soluble	Solid	DI Leach	
890-4914-12	SS06A	Soluble	Solid	DI Leach	
890-4914-13	SS07A	Soluble	Solid	DI Leach	
890-4914-14	SS08A	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

HPLC/IC (Continued)

Leach Batch: 57317 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57317/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57317/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57317/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4914-5 MS	FS05	Soluble	Solid	DI Leach	
890-4914-5 MSD	FS05	Soluble	Solid	DI Leach	

Leach Batch: 57365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-15	SS09A	Soluble	Solid	DI Leach	
890-4914-16	SW01	Soluble	Solid	DI Leach	
890-4914-17	SW02	Soluble	Solid	DI Leach	
MB 880-57365/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57365/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57365/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4914-15 MS	SS09A	Soluble	Solid	DI Leach	
890-4914-15 MSD	SS09A	Soluble	Solid	DI Leach	

Analysis Batch: 57418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-1	FS01	Soluble	Solid	300.0	57317
890-4914-2	FS02	Soluble	Solid	300.0	57317
890-4914-3	FS03	Soluble	Solid	300.0	57317
890-4914-4	FS04	Soluble	Solid	300.0	57317
890-4914-5	FS05	Soluble	Solid	300.0	57317
890-4914-6	FS06	Soluble	Solid	300.0	57317
890-4914-7	FS07	Soluble	Solid	300.0	57317
890-4914-8	FS08	Soluble	Solid	300.0	57317
890-4914-9	FS09	Soluble	Solid	300.0	57317
890-4914-10	FS10	Soluble	Solid	300.0	57317
890-4914-11	SS05A	Soluble	Solid	300.0	57317
890-4914-12	SS06A	Soluble	Solid	300.0	57317
890-4914-13	SS07A	Soluble	Solid	300.0	57317
890-4914-14	SS08A	Soluble	Solid	300.0	57317
MB 880-57317/1-A	Method Blank	Soluble	Solid	300.0	57317
LCS 880-57317/2-A	Lab Control Sample	Soluble	Solid	300.0	57317
LCSD 880-57317/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57317
890-4914-5 MS	FS05	Soluble	Solid	300.0	57317
890-4914-5 MSD	FS05	Soluble	Solid	300.0	57317

Analysis Batch: 57420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4914-15	SS09A	Soluble	Solid	300.0	57365
890-4914-16	SW01	Soluble	Solid	300.0	57365
890-4914-17	SW02	Soluble	Solid	300.0	57365
MB 880-57365/1-A	Method Blank	Soluble	Solid	300.0	57365
LCS 880-57365/2-A	Lab Control Sample	Soluble	Solid	300.0	57365
LCSD 880-57365/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57365
890-4914-15 MS	SS09A	Soluble	Solid	300.0	57365
890-4914-15 MSD	SS09A	Soluble	Solid	300.0	57365

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Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS01

Date Collected: 07/07/23 10:25

Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 02:01	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 17:10	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:29	CH	EET MID

Client Sample ID: FS02

Date Collected: 07/07/23 10:30

Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 02:21	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 17:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:35	CH	EET MID

Client Sample ID: FS03

Date Collected: 07/07/23 10:35

Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 02:41	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 17:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:40	CH	EET MID

Client Sample ID: FS04

Date Collected: 07/07/23 10:40

Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 03:02	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS04
Date Collected: 07/07/23 10:40
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 18:16	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:45	CH	EET MID

Client Sample ID: FS05
Date Collected: 07/07/23 10:45
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 05:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 18:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 18:50	CH	EET MID

Client Sample ID: FS06
Date Collected: 07/07/23 10:50
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 05:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 19:11	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:05	CH	EET MID

Client Sample ID: FS07
Date Collected: 07/07/23 10:55
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 05:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 19:33	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: FS07

Date Collected: 07/07/23 10:55

Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:10	CH	EET MID

Client Sample ID: FS08

Date Collected: 07/07/23 11:00

Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 06:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 19:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:26	CH	EET MID

Client Sample ID: FS09

Date Collected: 07/07/23 12:05

Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 06:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 20:18	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:31	CH	EET MID

Client Sample ID: FS10

Date Collected: 07/07/23 12:10

Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 06:47	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/24/23 14:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	57801	07/17/23 09:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58259	07/22/23 20:41	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:36	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS05A
Date Collected: 07/07/23 12:15
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 07:07	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/14/23 17:19	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:41	CH	EET MID

Client Sample ID: SS06A
Date Collected: 07/07/23 12:20
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 07:28	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/14/23 17:41	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:46	CH	EET MID

Client Sample ID: SS07A
Date Collected: 07/07/23 12:25
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 07:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/14/23 18:03	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:52	CH	EET MID

Client Sample ID: SS08A
Date Collected: 07/07/23 12:30
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57410	07/11/23 12:32	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57379	07/12/23 08:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 11:12	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SS08A

Lab Sample ID: 890-4914-14

Date Collected: 07/07/23 12:30

Matrix: Solid

Date Received: 07/07/23 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/15/23 07:36	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	57317	07/10/23 13:53	KS	EET MID
Soluble	Analysis	300.0		1			57418	07/11/23 19:57	CH	EET MID

Client Sample ID: SS09A

Lab Sample ID: 890-4914-15

Date Collected: 07/07/23 12:35

Matrix: Solid

Date Received: 07/07/23 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	57416	07/11/23 13:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57381	07/12/23 05:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/15/23 08:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	57365	07/11/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1			57420	07/11/23 13:46	CH	EET MID

Client Sample ID: SW01

Lab Sample ID: 890-4914-16

Date Collected: 07/07/23 12:40

Matrix: Solid

Date Received: 07/07/23 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	57416	07/11/23 13:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57381	07/12/23 06:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/15/23 08:50	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	57365	07/11/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1			57420	07/11/23 14:04	CH	EET MID

Client Sample ID: SW02

Lab Sample ID: 890-4914-17

Date Collected: 07/07/23 12:45

Matrix: Solid

Date Received: 07/07/23 14:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	57416	07/11/23 13:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	57381	07/12/23 06:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			57491	07/12/23 14:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			57842	07/17/23 13:24	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	57501	07/12/23 12:11	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	57664	07/15/23 09:11	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Client Sample ID: SW02
Date Collected: 07/07/23 12:45
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	57365	07/11/23 12:00	KS	EET MID
Soluble	Analysis	300.0		1			57420	07/11/23 14:10	CH	EET MID

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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	T104704400-23-26	06-30-24

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
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

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: Brinninstool Unit 003H

Job ID: 890-4914-1
SDG: 03D2024197

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4914-1	FS01	Solid	07/07/23 10:25	07/07/23 14:57	2.5
890-4914-2	FS02	Solid	07/07/23 10:30	07/07/23 14:57	2.5
890-4914-3	FS03	Solid	07/07/23 10:35	07/07/23 14:57	2.5
890-4914-4	FS04	Solid	07/07/23 10:40	07/07/23 14:57	2.5
890-4914-5	FS05	Solid	07/07/23 10:45	07/07/23 14:57	2.5
890-4914-6	FS06	Solid	07/07/23 10:50	07/07/23 14:57	2.5
890-4914-7	FS07	Solid	07/07/23 10:55	07/07/23 14:57	1
890-4914-8	FS08	Solid	07/07/23 11:00	07/07/23 14:57	1
890-4914-9	FS09	Solid	07/07/23 12:05	07/07/23 14:57	1
890-4914-10	FS10	Solid	07/07/23 12:10	07/07/23 14:57	1
890-4914-11	SS05A	Solid	07/07/23 12:15	07/07/23 14:57	1
890-4914-12	SS06A	Solid	07/07/23 12:20	07/07/23 14:57	1
890-4914-13	SS07A	Solid	07/07/23 12:25	07/07/23 14:57	1
890-4914-14	SS08A	Solid	07/07/23 12:30	07/07/23 14:57	1
890-4914-15	SS09A	Solid	07/07/23 12:35	07/07/23 14:57	1
890-4914-16	SW01	Solid	07/07/23 12:40	07/07/23 14:57	1
890-4914-17	SW02	Solid	07/07/23 12:45	07/07/23 14:57	1



Environment Testing
Xenco

Chain of Custody

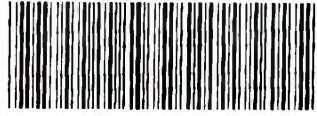
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

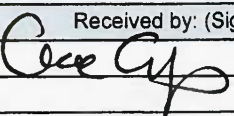
Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com, kjennings@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		ANALYSIS REQUEST												Preservative Codes		
Project Number:	03D2024197	☒ Routine ☐ Rush	Pres. Code														None: NO	DI Water: H ₂ O
Project Location:	32.29733,-103.58598	Due Date:															Cool: Cool	MeOH: Me
Sampler's Name:	Peter Van Patten	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank: ☒ Yes ☐ No	Wet Ice: ☒ Yes ☐ No	Parameters CHLORIDES (EPA: 300.0) TPH (8015) BTEX (8021)  890-4914 Chain of Custody												H ₃ PO ₄ : HP		
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:														NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:	Yes ☐ No ☒ N/A	Temperature Reading:														Zn Acetate+NaOH: Zn		
Total Containers:		Corrected Temperature:														NaOH+Ascorbic Acid: SAPC		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)									Sample Comments
FS01	Soil	7/7/2023	1025	2.5	Comp	1	x	x	x									
FS02	Soil	7/7/2023	1030	2.5	Comp	1	x	x	x									
FS03	Soil	7/7/2023	1035	2.5	Comp	1	x	x	x									
FS04	Soil	7/7/2023	1040	2.5	Comp	1	x	x	x									
FS05	Soil	7/7/2023	1045	2.5	Comp	1	x	x	x									
FS06	Soil	7/7/2023	1050	2.5	Comp	1	x	x	x									
FS07	Soil	7/7/2023	1055	1	Comp	1	x	x	x									
FS08	Soil	7/7/2023	1100	1	Comp	1	x	x	x									
FS09	Soil	7/7/2023	1205	1	Comp	1	x	x	x									
FS10	Soil	7/7/2023	1210	1	Comp	1	x	x	x									

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		7-7-23 1457			
3					
5					

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4914-1

SDG Number: 03D2024197

Login Number: 4914

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4914-1

SDG Number: 03D2024197

Login Number: 4914

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 07/11/23 11:07 AM

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



APPENDIX D

NMOCD Notifications

[**EXTERNAL EMAIL**]

Hadlie,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, June 29, 2023 8:15 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kalei Jennings <kjennings@ensolum.com>; Peter Van Patten <pvanpatten@ensolum.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 7/3/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of July 3, 2023.

- Red Raider BKS Battery / NAPP2315734307
 - o Sampling Date: 7/6/2023 @ 10:00 AM MST
- Brinninstool Unit 3H / NAPP2315635182
 - o Sampling Date: 7/7/2023 @ 10:00 AM MST

Thank you,



Hadlie Green
Project Geologist
432-557-8895
hgreen@ensolum.com
Ensolum, LLC
in f t



APPENDIX E

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	217817
Contact Name	Jacob Laird	Contact Telephone	(575) 703-5482
Contact email	Jacob.Laird@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2315635182
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.2973 Longitude -103.5859
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Brinninstool Unit 003H	Site Type	Flowline
Date Release Discovered	May 29, 2023	API# (if applicable)	

Unit Letter	Section	Township	Range	County
A	20	23S	33E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Hughes Properties)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 2.3059	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by transfer line damage.

The release was off the pad.

Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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. ☐ The impacted area has been secured to protect human health and the environment. ☐ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☐ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name Brittany N. Esparza Signature:  email: Brittany.Esparza@ConocoPhillips.com	Title: Environmental Technician Date: 6/5/2023 Telephone: (432) 221-0398
<u>OCD Only</u>	
Received by: Jocelyn Harimon	Date: 06/05/2023

Received by OCD: 9/18/2023 9:59:45AM Convert irregular shape into a series of rectangles								NAPD2315625182 Current Release Volume - RMR Handover Volume. (yd³.)	
Length (ft.)	Width (ft.)	Average Depth (in.)	On/Off Pad (dropdown)	Soil Spilled-Fluid Saturation (%)	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)		
Rectangle A	60.0	30.0	0.4	Off-Pad ▾	15.02%	10.01	1.50	750	
Rectangle B	60.0	30.0	0.2	Off-Pad ▾	15.02%	5.34	0.80		
Rectangle C				▾		0.00	0.00		
Rectangle D				▾		0.00	0.00		
Rectangle E				▾		0.00	0.00		
Rectangle F				▾		0.00	0.00		
Rectangle G				▾		0.00	0.00		
Rectangle H				▾		0.00	0.00		
Rectangle I				▾		0.00	0.00		
Rectangle I				▾		0.00	0.00		
Total Subsurface Volume Released:							2.3059	3.99	BU
Released to Imaging: 1/12/2024 11:06:13AM								Page 113 of 118	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 223771

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 223771
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	6/5/2023

Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

Site Assessment/Characterization

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?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

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Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

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.

Printed Name: __Jacob Laird__

Title: __Environmental Engineer__

Signature: Jacob Laird

Date: __9/14/2023__

email: __Jacob.Laird@conocophillips.com__

Telephone: __575-703-5482__

OCD Only

Received by: _____

Date: _____

Incident ID	NAPP2315635182
District RP	
Facility ID	fAPP2203246737
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: __Jacob Laird__ Title: __Environmental Engineer__
Signature: *Jacob Laird* Date: 9/14/2023
email: __Jacob.Laird@conocophillips.com__ Telephone: __575-703-5482__

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: *Nelson Velez* Date: 01/12/2024
Printed Name: Nelson Velez Title: Environmental Specialist - Adv

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 266282

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 266282
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Release did not require notification per 19.15.29.10 NMAC (<= 5 bbls). Should accept for the record; however, documentation submitted met the applicable closure standards; therefore, the remediation closure report is approved. Release resolved.	1/12/2024