

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

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)	Volume Recovered (bbls)
	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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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 _____	Title: _____
Signature: <u>Patricia Espinoza</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____



August 14, 2025

New Mexico Oil Conservation Division

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

**Re: Revegetation Report and Restoration Complete 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 the following *Revegetation Report and Restoration Complete Request (Report)* for the Brinninstool Unit 003H (Site). The *Report* documents the Site history, reclamation activities, and vegetation monitoring activities completed at the Site. Based on the findings included in this *Report*, COG is respectfully requesting Restoration Complete Status for this Site.

BACKGROUND

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 the 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.

Delineation and excavation of impacted soil was completed at the Site in July 2023. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on September 18, 2024. The NMOCD approved the *Closure Request* on January 12, 2024. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request* included as Attachment I in this Report. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled and recontoured to match pre-existing conditions. The excavation extent and reclamation area are depicted on the attached Figure 1. One representative 5-point composite sample was collected from the caliche and topsoil backfill material to confirm compliance with the NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride

COG Operating, LLC
Revegetation Report and Restoration Complete Request
Brinninstool Unit 003H

concentrations less than 600 milligrams per kilogram (mg/kg) and total petroleum hydrocarbons (TPH) concentrations less than 100 mg/kg. The disturbed pasture area was seeded with the Bureau of Land Management (BLM) sandy sites seed mix at double the rate specified in pounds of pure live seed (PLS) per acre to account for the application method (broadcast spreader).

A *Reclamation Report* was submitted to the NMOCD on January 7, 2025. The NMOCD approved the *Reclamation Report* on March 31, 2025. Additional details regarding reclamation activities completed at the Site can be referenced in the approved *Reclamation Report* attached as Attachment II. Reclamation of the release was completed in accordance with 19.15.29.13 NMAC.

VEGETATION MONITORING ACTIVITIES

On July 15, 2025, Ensolum personnel completed a Site inspection to assess revegetation progress utilizing the Line-Point Intercept (LPI) method. The LPI method was used to evaluate the vegetative cover across the well pad and access road in comparison to adjacent undisturbed native reference areas. This method was selected to determine whether the reclaimed areas met or exceeded the 70 percent (%) vegetation cover threshold required for final reclamation and revegetation success, as measured against native baseline conditions. At each assessment location, a 50-foot transect line was established within the most representative portion of both the reclaimed area and its corresponding reference site. Vegetation presence was recorded at 1-foot intervals along each transect. If vegetation was absent at a given point, the location was recorded as bare ground (abbreviated as "S"). Global Positioning System (GPS) coordinates for each transect were collected using a GPS receiver and Field Maps application. The location of each LPI transect is presented in Figure 2.

Results from the LPI survey indicated the disturbed area exhibited 62% vegetative cover, while the corresponding native reference site exhibited 90% cover. This results in a vegetation establishment of 69% vegetative cover, relative to the reference site. Although this calculated value is just below the nominal 70 percent (%) threshold, the Site is considered to meet reclamation success criteria based on uniform vegetative cover, the presence of approved and native species, and compliance with the intent of 19.15.29.13.D.(3) NMAC. An intentional land bridge was present spanning points 23 through 31 of the disturbed area to provide access across the Site. By removing the intentional land bridge from the calculation, the results indicate a vegetation establishment of 75.6% vegetative cover, relative to the reference site, which exceeds the nominal 70% threshold. The vegetative cover was generally uniform across the Site, and the species present were consistent with the approved seed mix and native to the area. Four out of seven target plant species (57%) were positively identified during the survey. Photographic documentation of the Site inspection is included in Appendix A. The LPI field forms are included in Appendix B.

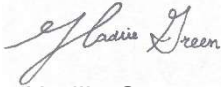
REVEGETATION APPROVAL REQUEST

Based on the reclamation activities and vegetation monitoring activities completed to date, COG respectfully requests approval of this *Report* and a status update to *Re-vegetation Report Approved, Restoration Complete* for Incident Number NAPP2315635182.

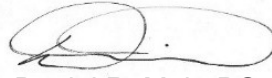
COG Operating, LLC
Revegetation Report and Restoration Complete Request
Brinninstool Unit 003H

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

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



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

cc: Jacob Laird, ConocoPhillips Company
Hughes Properties, LLC

Appendices:

Figure 1 Excavation Extent / Reclamation Area
Figure 2 LPI Transect Map

Appendix A Photographic Log
Appendix B LPI Field Form

Attachment I *Closure Request*: Dated September 18, 2024
Attachment II *Reclamation Report*: Dated January 7, 2025



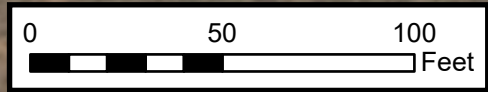
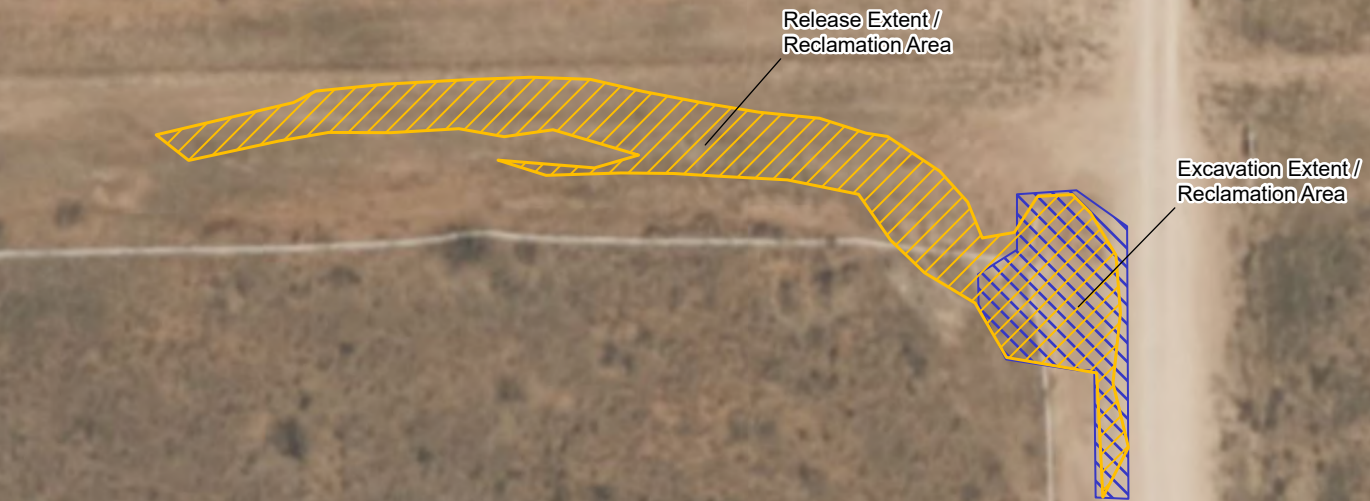
FIGURES

Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\PAR_GIS\File Path Structure\4 - Midland\ConocoPhillips Company\03D2024\197 - Brinninstool Unit 003H\1 - Project\Brinninstool Unit 003H.aprx

Legend

 Excavation Extent / Reclamation Area

 Release Extent / Reclamation Area



Source:
Bing Maps

**ENSOLUM**
Environmental, Engineering and
Hydrogeologic Consultants

Excavation Extent / Reclamation Area

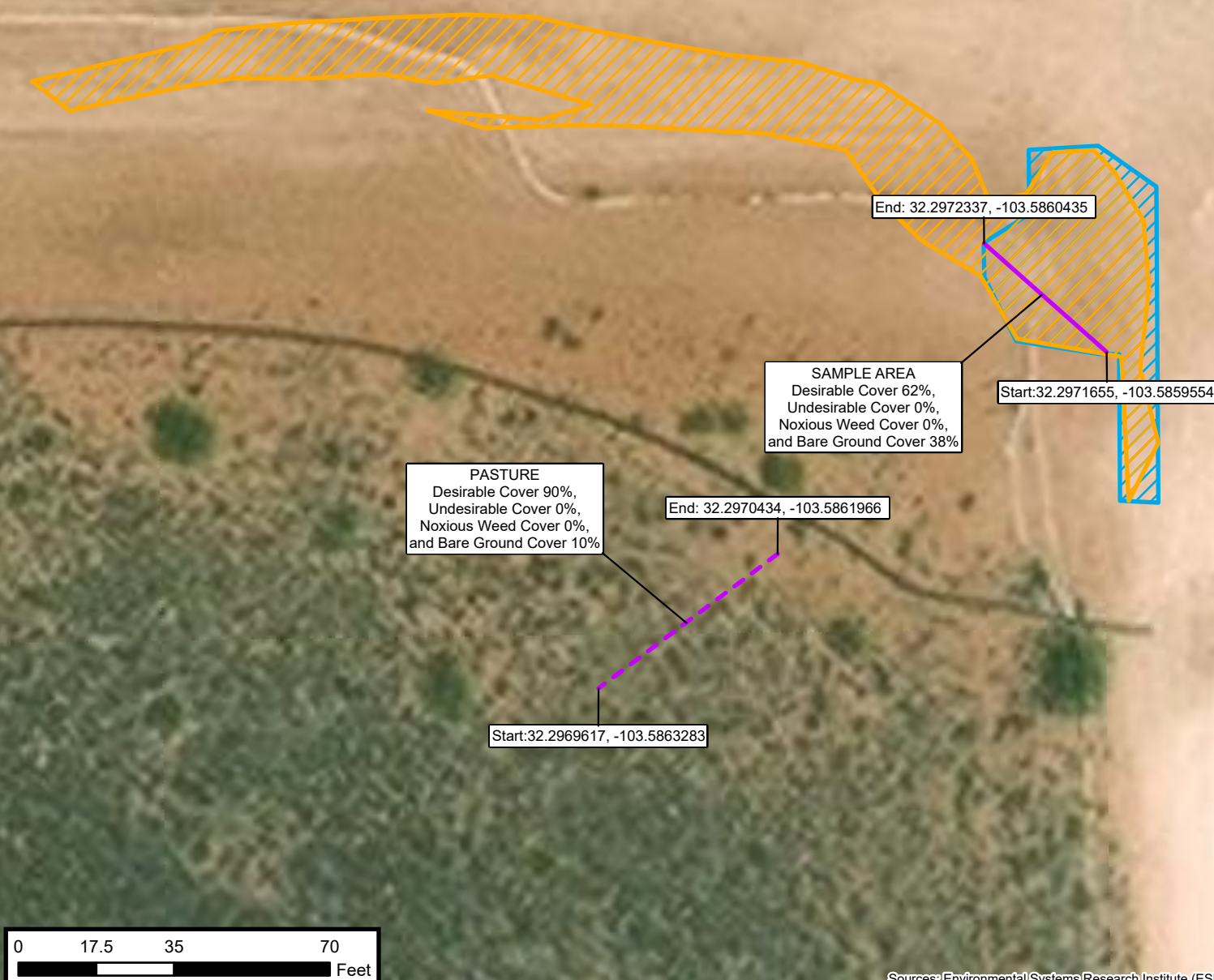
ConocoPhillips Company
Brinninstool Unit 003H
Incident Number: NAPP2315635182
Unit B, Section 11, T23S, R37E
Lea County, New Mexico

FIGURE

1

Legend

- Pasture
- Sample Area
- Release Extent
- Excavation Extent

**LPI Transect Map**

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

FIGURE**2**

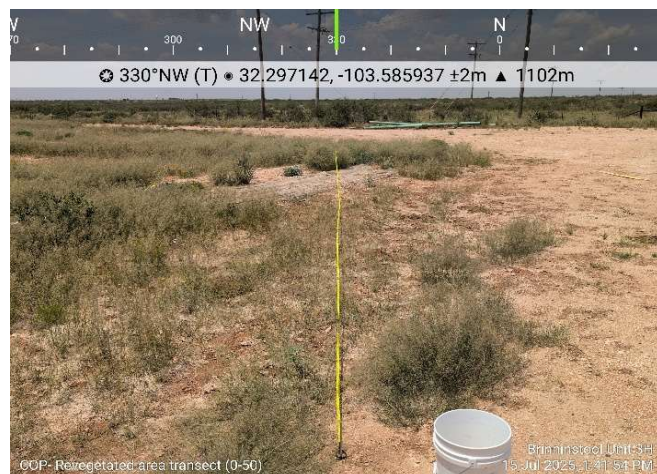


APPENDIX A

Photographic Log



Photographic Log
 COG Operating, LLC
 Brinninstool Unit 003H
 Incident Number NAPP2315635182



Photograph: 1 Date: 7/15/2025
 Description: Revegetated transect overview (0-50)
 View: Northwest



Photograph: 2 Date: 7/15/2025
 Description: Revegetated overview along utilities
 View: South



Photograph: 3 Date: 7/15/2025
 Description: Lease road and pasture overview
 View: Southwest



Photograph: 4 Date: 7/15/2025
 Description: Lease road and pasture overview
 View: Southeast



Photographic Log
 COG Operating, LLC
 Brinninstool Unit 003H
 Incident Number NAPP2315635182



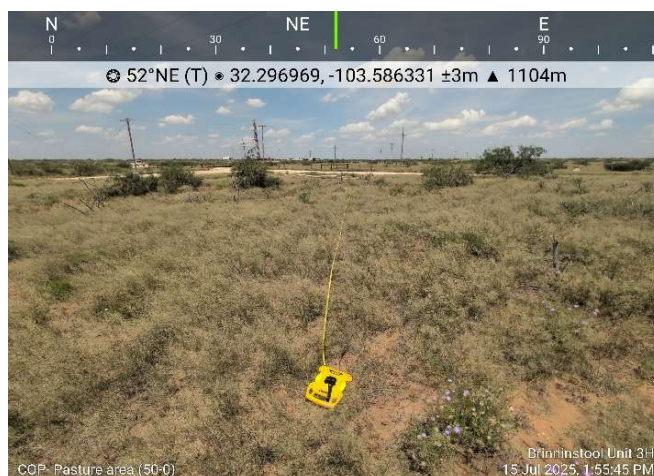
Photograph: 5 Date: 7/15/2025
 Description: Vegetation overview
 View: Southwest



Photograph: 6 Date: 7/15/2025
 Description: Vegetation overview
 View: Northeast



Photograph: 7 Date: 7/15/2025
 Description: Vegetation overview along lease road
 View: Northeast



Photograph: 8 Date: 7/15/2025
 Description: Pasture transect (50-0)
 View: Northeast



APPENDIX B

LPI Field Form

Plot: Brinninstool Unit 3H			Line Type: Sample Area			Observer: A. Vojdani			Recorder: A. Vojdani		
Direction: NW			Date: 7/15/2025		Start/End Coordinates: 32.2971655, -103.5859554 / 32.2972337, -103.5860435						
Point	Plant Code	Vegetation Class			Noxious Weed Class	Point	Plant Code	Vegetation Class			Noxious Weed Class
		Desirable	Undesirable	Noxious				Desirable	Undesirable	Noxious	
1	S					26	S				
2	SPCR	X				27	S				
3	S					28	S				
4	SPCR	X				29	S				
5	S					30	S				
6	SPCR	X				31	S				
7	SPCR	X				32	SPCR	X			
8	SPCR	X				33	SPCR	X			
9	SPCR	X				34	SPCR	X			
10	SPCR	X				35	SPCR	X			
11	SPCR	X				36	SPCR	X			
12	SPCR	X				37	SPCR	X			
13	SPCR	X				38	S				
14	SPCR	X				39	SPCR	X			
15	S					40	SPCR	X			
16	SPCR	X				41	GUSA2	X			
17	SPCR	X				42	SPCR	X			
18	S					43	S	X			
19	SPCR	X				44	CRDI6	X			
20	SPCR	X				45	CRDI6	X			
21	SPCR	X				46	S				
22	S					47	S				
23	S					48	SPCR	X			
24	S					49	SPCR	X			
25	S					50	SPCR	X			

Plant Code	Comon Name (Scientific Name)
SPCR	DROPSEED
CRDI6	GRASSLAND CROTON
GUSA2	BROOM SNAKE WEED
S	SOIL

Calculations		
Types of Coverage	Points	Percentage
Desirable Coverage	31	62%
Undesirable Coverage	0	0%
Noxious Weeds Coverage	0	0%

Plot: Brinninstool Unit 3H			Line Type: Pasture			Observer: A. Vojdani			Recorder: A. Vojdani		
Direction: SW			Date: 7/15/2025		Start/End Coordinates: 32.2969617, -103.5863283 / 32.2970434, -103.5861966						
Point	Plant Code	Vegetation Class			Noxious Weed Class	Point	Plant Code	Vegetation Class			Noxious Weed Class
		Desirable	Undesirable	Noxious				Desirable	Undesirable	Noxious	
1	SPCR	X				26	SPCR	X			
2	YOGL	X				27	SPCR	X			
3	DIWI 2	X				28	SPCR	X			
4	SPCR	X				29	SPCR	X			
5	SPCR	X				30	SPCR	X			
6	SPCR	X				31	SPCR	X			
7	SPCR	X				32	S				
8	SPCR	X				33	SPCR	X			
9	SPCR	X				34	SPCR	X			
10	SPCR	X				35	SPCR	X			
11	GUSA2	X				36	SPCR	X			
12	TILA2	X				37	SPCR	X			
13	SPCR	X				38	SPCR	X			
14	S					39	SPCR	X			
15	MAPIP	X				40	S				
16	SPCR	X				41	SPCR	X			
17	GUSA2	X				42	S				
18	GUSA2	X				43	SPCR	X			
19	SPCR	X				44	SPCR	X			
20	SPCR	X				45	SPCR	X			
21	SPCR	X				46	SPCR	X			
22	SPCR	X				47	SPCR	X			
23	SPCR	X				48	SPCR	X			
24	SPCR	X				49	SPCR	X			
25	S					50	SPCR	X			

Plant Code	Comon Name (Scientific Name)
SPCR	DROPSEED
CRDI6	GRASSLAND CROTON
GUSA2	BROOM SNAKE WEED
YUGL	SOAPTRUCE YUCCA
TILA2	WOORY TIDESTROMIA
MAPIP	LACY TANSYASTER
DIWI2	TOURIST PLANT
S	SOIL

Calculations		
Types of Coverage	Points	Percentage
Desirable Coverage	45	90%
Undesirable Coverage	0	0%
Noxious Weeds Coverage	0	0%
Bare Ground Coverage	5	10%

Calculations		
Sample Area		
Desirable Covarage	points	62%
Undesirable Coverage	points	0%
Noxious Weeds Coverage	points	0%
Bare Ground Coverage	points	38%
Total Coverage percentage=		62%
Pasture		
Desirable Coverage	points	90%
Undesirable Coverage	points	0%
Noxious Weeds Coverage	points	0%
Bare Ground Coverage	points	10%
Total Coverage percentage=		90%
Sample Area % / Pasture % =		69%
Does the Site pass?		Yes



Attachment I

Closure Request:
Dated September 18, 2024



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.

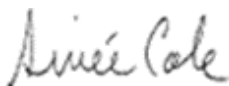
COG believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2315635182. NMOCD notifications are included in Appendix D and the Final C-141 is included in Appendix E.

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



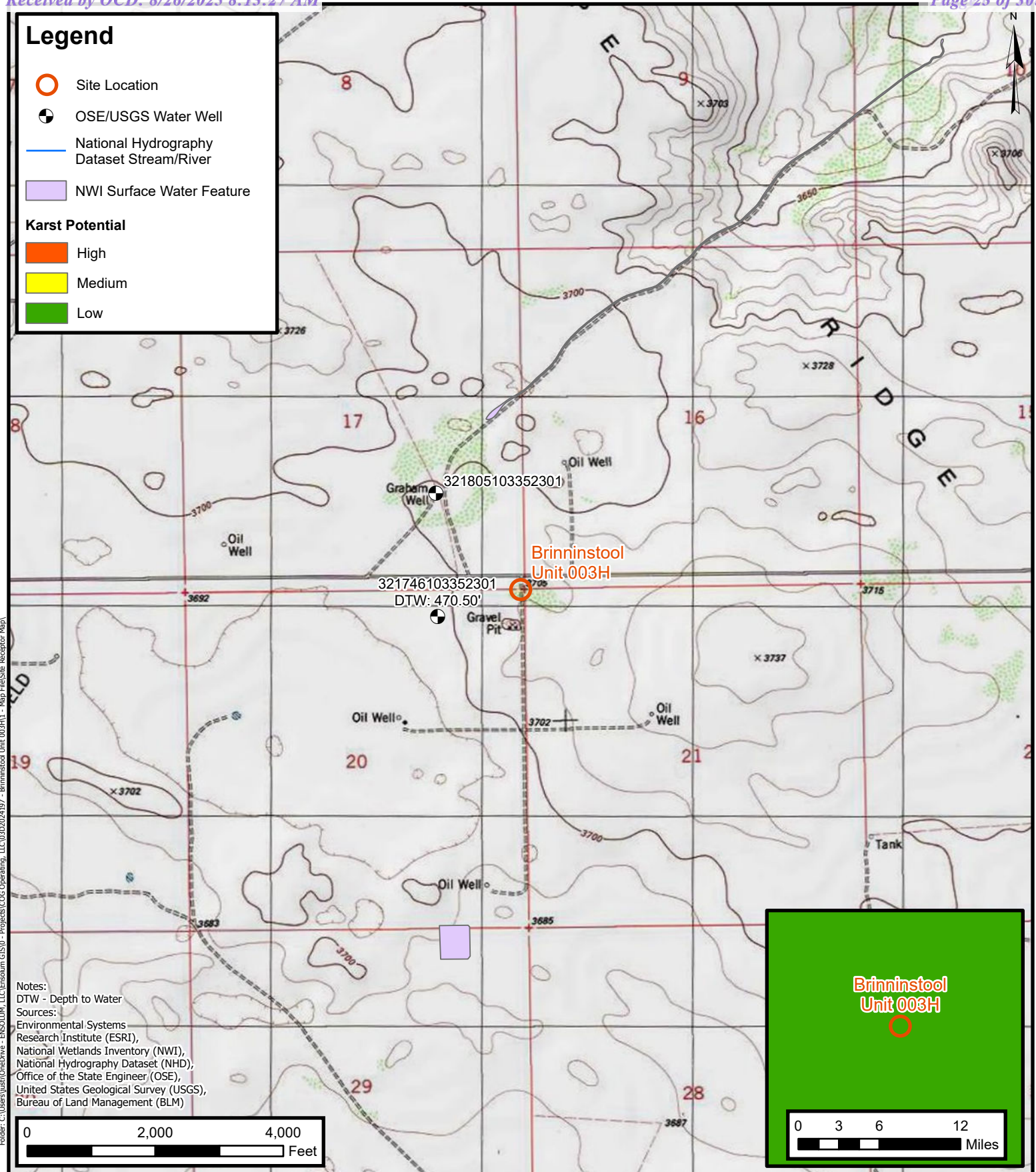
FIGURES

Legend

-  Site Location
-  OSE/USGS Water Well
-  National Hydrography Dataset Stream/River
-  NWI Surface Water Feature

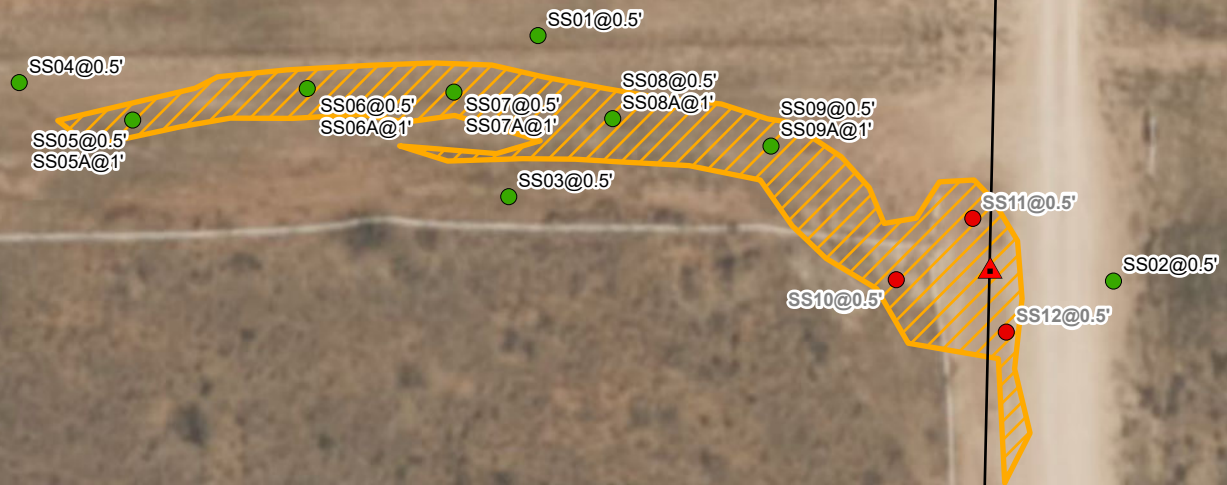
Karst Potential

-  High
-  Medium
-  Low



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

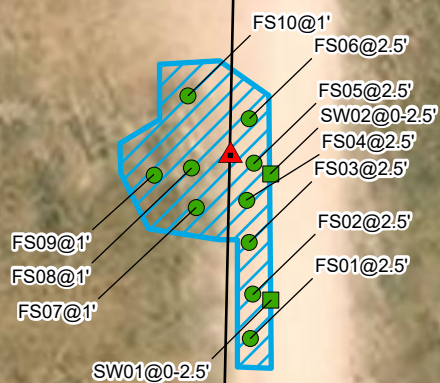
FIGURE

2

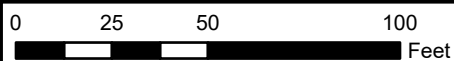


Legend

- ▲ 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 News Bulletins

- 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.

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[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



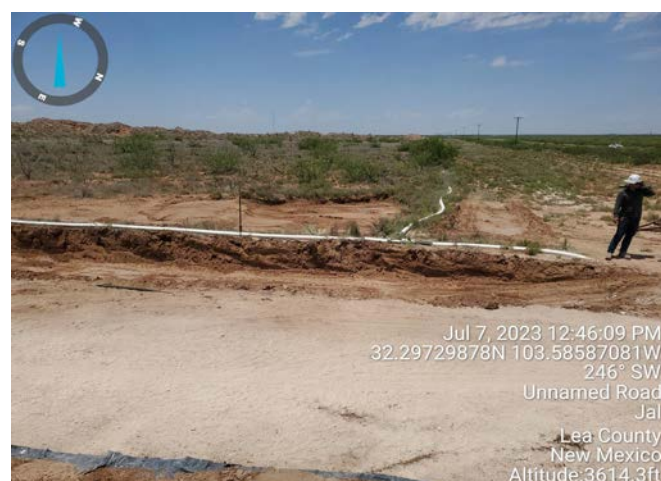
Photographic Log
 COG Operating, LLC
 Brinninstool Unit 003H
 NAPP2315635182



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

Table of Contents

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QC Association Summary	24
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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

Eurofins Carlsbad

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	LCS	LCS				%Rec
				Added	Result	Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics (Over C10-C28)				1000	943.2		mg/Kg		94	70 - 130
Surrogate	LCS		LCS							
	%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	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		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

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

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%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

	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	<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

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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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	997.7		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	943.5		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	96		70 - 130

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1010		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	975.5		mg/Kg		98	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-4846-10 MS

Matrix: Solid

Analysis Batch: 56147

Client Sample ID: SS10

Prep Type: Total/NA

Prep Batch: 56210

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	999	867.4		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	155	F1	999	782.1	F1	mg/Kg		63	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: 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

	MSD	MSD	
Surrogate	%Recovery	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										Client Sample ID: SS01		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 56235												
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										Client Sample ID: SS11		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 56235												
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										Client Sample ID: SS11		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 56235												
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

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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

Eurofins Carlsbad

Lab Chronicle

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

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

Lab Sample ID: 890-4846-8

Date Collected: 06/21/23 12:15

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-9

Date Collected: 06/21/23 12:25

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-10

Date Collected: 06/21/23 12:30

Matrix: Solid

Date Received: 06/21/23 15:26

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



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:		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																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



Generated
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

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

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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

Eurofins Carlsbad

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 (70-130)	OTPH1 (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	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
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	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
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	LCSD	Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					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 Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 %Recovery	MS Qualifier	Limits
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	
	MS	MS								
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	
	MSD	MSD										
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				
	MB	MB										
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
		LCS	LCS				
		%Recovery	Qualifier				
Surrogate			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
		LCSD	LCSD						
		%Recovery	Qualifier						
Surrogate			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

	MS	MS		
	%Recovery	Qualifier		
Surrogate		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

	MSD	MSD		
	%Recovery	Qualifier		
Surrogate		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

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

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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 (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

Eurofins Carlsbad

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

Lab Sample ID: 890-4914-4

Date Collected: 07/07/23 10:40

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	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

Lab Sample ID: 890-4914-5

Date Collected: 07/07/23 10:45

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			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

Lab Sample ID: 890-4914-6

Date Collected: 07/07/23 10:50

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			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

Lab Sample ID: 890-4914-7

Date Collected: 07/07/23 10:55

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	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

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Lab Chronicle

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

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

Lab Sample ID: 890-4914-12

Date Collected: 07/07/23 12:20

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	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

Lab Sample ID: 890-4914-13

Date Collected: 07/07/23 12:25

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	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

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	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
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	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
Date Collected: 07/07/23 12:35
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-15
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	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
Date Collected: 07/07/23 12:40
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-16
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	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
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
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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- 2
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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:		Brinninstool Unit 003H		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																H ₃ PO ₄ : HP		
Samples Received Intact:		☒ Yes ☐ No		Thermometer ID: 7211007																NaHSO ₄ : NABIS		
Cooler Custody Seals:		Yes ☐ No ☒ N/A		Correction Factor: -0.2																Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:		Yes ☐ No ☒ N/A		Temperature Reading: 3.2																Zn Acetate+NaOH: Zn		
Total Containers:				Corrected Temperature: 3.0																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
<i>Peter Van Patten</i>	<i>Cecilia</i>	7-7-23 1457			

Revised Date 08/25/2020 Rev. 2020.2



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 2 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:		Brinninstool Unit 003H		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															
Samples Received Intact:	Yes No	Thermometer ID:																						H ₃ PO ₄ : HP	
Cooler Custody Seals:	Yes No N/A	Correction Factor:																						NaHSO ₄ : NABIS	
Sample Custody Seals:	Yes No N/A	Temperature Reading:																						Na ₂ S ₂ O ₃ : NaSO ₃	
Total Containers:		Corrected Temperature:																						Zn Acetate+NaOH: Zn	
																								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		
SS05A		Soil	7/7/2023	1215	1	Comp	1	x	x	x															
SS06A		Soil	7/7/2023	1220	1	Comp	1	x	x	x															
SS07A		Soil	7/7/2023	1225	1	Comp	1	x	x	x															
SS08A		Soil	7/7/2023	1230	1	Comp	1	x	x	x															
SS09A		Soil	7/7/2023	1235	1	Comp	1	x	x	x															
SW01		Soil	7/7/2023	1240	1	Comp	1	x	x	x															
SW02		Soil	7/7/2023	1245	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 <i>Peter Van Patten</i>	<i>Clare Cef</i>	7-7-23 1453			
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.

State of New Mexico
Oil Conservation Division

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

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

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



Attachment II

Reclamation Report:
Dated January 7, 2025

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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

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)	Volume Recovered (bbls)
	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

Incident ID	
District RP	
Facility ID	
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 _____	Title: _____
Signature: <u>Patricia Espinoza</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____



November 27, 2024

New Mexico Oil Conservation Division

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

**Re: Reclamation Report
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 the following *Reclamation Report* for the Brinninstool Unit 003H (Site). The *Reclamation Report* documents the Site history and reclamation activities completed to date.

BACKGROUND

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 the 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.

Delineation and excavation of impacted soil was completed at the Site in July 2023. Based on the delineation and excavation soil sample analytical results, a *Closure Request* was submitted to the NMOCD on September 18, 2024. The NMOCD approved the *Closure Request* on January 12, 2024. Additional details regarding the release, Site Characterization, delineation and excavation activities, and soil sample analytical results can be referenced in the approved *Closure Request* attached as Appendix A. Remediation of the release was completed in accordance with Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC).

RECLAMATION ACTIVITIES

The excavation area measured approximately 1,405 square feet. A total of approximately 120 cubic yards of impacted soil were removed during the excavation activities. Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled, and the area was graded and contoured to match the surrounding topography. The excavation area on the lease road was backfilled with caliche and the excavation in the pasture was backfilled with locally procured topsoil,

COG Operating, LLC
Reclamation Report
Brinninstool Unit 003H

consistent with the surrounding native soil type. The excavation extent and reclamation area are depicted on the attached Figure 1. Photographic documentation is included in Appendix B.

One representative 5-point composite sample (CS-1) was collected from the caliche backfill material. One representative 5-point composite sample (CS-2) was collected from the topsoil backfill material. The backfill soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for the backfill soil samples confirmed compliance with NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 milligrams per kilogram (mg/kg) and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized in the attached Table 1 and the complete laboratory analytical report is included as Appendix C.

The disturbed pasture area was seeded on October 23, 2024, with the Bureau of Land Management (BLM) sandy sites seed mix at double the rate specified in pounds of pure live seed (PLS) per acre to account for the application method.

Species/Cultivar	PLS/Acre
Sand dropseed (<i>Sporobolus cryptandrus</i>)	1.0
Sand love grass (<i>Eragrostis trichodes</i>)	1.0
Plains brome grass (<i>Setaria macrostachya</i>)	2.0

The seed mix was doubled and distributed with a broadcast seed spreader and harrowed in. Photographs of the backfilled excavation and seeding of the reclaimed area are provided in Appendix B.

VEGETATION MONITORING

The Site will be monitored for vegetation growth to verify reclamation activities were successful. Focus for this phase will be to prevent erosion and Site degradation, and to monitor for and treat invasive and noxious weed species.

- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by licensed contracted herbicide applicators or mechanically/physically removed.

A *Re-vegetation Report* will be submitted to the NMOCD once vegetation growth in the reclaimed pasture area has a uniform vegetative cover that reflects a life-form ratio of plus or minus 50 percent (%) of pre-disturbance levels and a total percent plant cover of at least 70% of pre-disturbance levels, excluding noxious weeds, per NMAC 19.15.29.13 D.(3).

COG Operating, LLC
Reclamation Report
Brinninstool Unit 003H

RECLAMATION APPROVAL REQUEST

Based on the reclamation activities completed to date and proposed vegetation monitoring plan described above, COG respectfully requests approval of this *Reclamation Report* and a status update to *Reclamation Report Approved, Pending submission of Re-Vegetation Report* for Incident Number NAPP2315635182.

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

Sincerely,
Ensolum, LLC



Tabitha Guadian
Staff Geologist



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

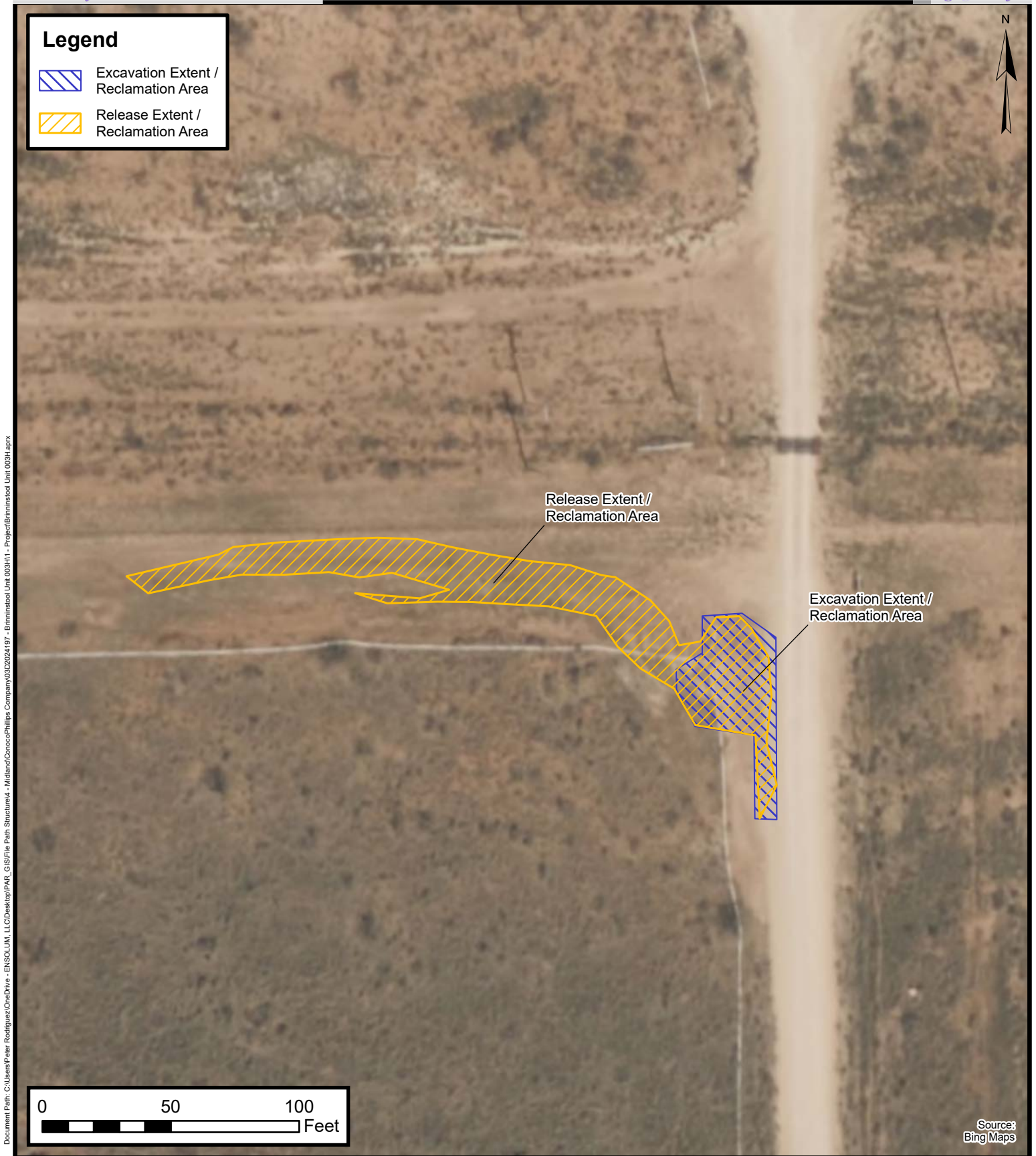
cc: Jacob Laird, ConocoPhillips Company

Appendices:

Figure 1	Excavation Extent / Reclamation Area
Table 1	Backfill Soil Sample Analytical Results
Appendix A	Closure Request Report: Dated September 18, 2024
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Report & Chain of Custody Documentation



FIGURES



Excavation Extent / Reclamation Area

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

FIGURE
1



TABLES



TABLE 1
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)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Requirements for Reclaimed Area			10	50	NE	NE	NE	100	600
Backfill Soil Samples									
CS-1 (Caliche)	11/18/2024	0.25	<0.00201	0.0683	<49.8	<49.8	<49.8	<49.8	117
CS-2 (Topsoil)	11/18/2024	0.25	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	64.1

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NE - Not Established

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



APPENDIX A

Closure Request Report:
Dated September 18, 2024



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.

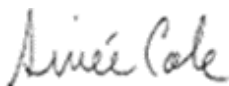
COG believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2315635182. NMOCD notifications are included in Appendix D and the Final C-141 is included in Appendix E.

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



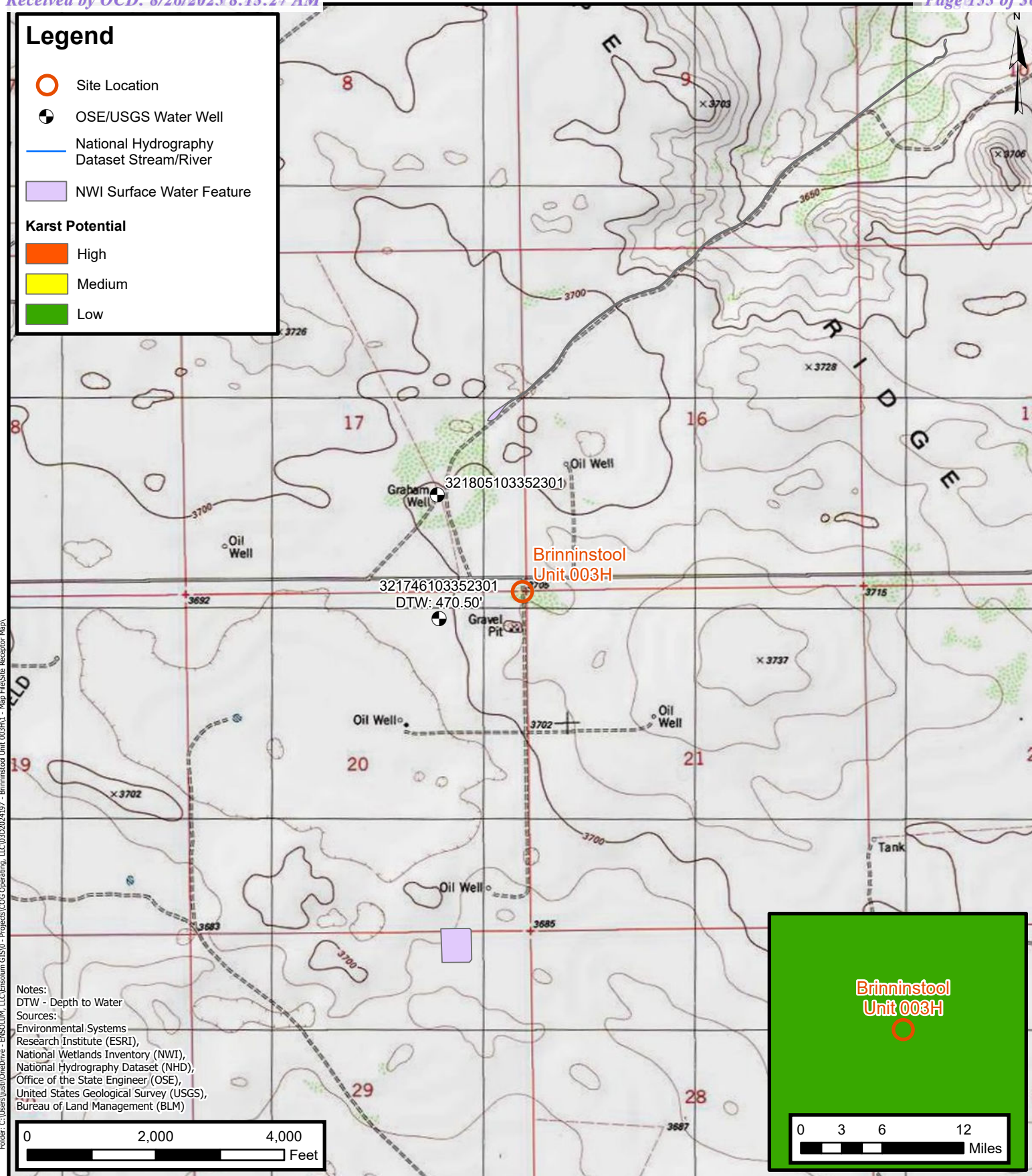
FIGURES

Legend

-  Site Location
-  OSE/USGS Water Well
-  National Hydrography Dataset Stream/River
-  NWI Surface Water Feature

Karst Potential

-  High
-  Medium
-  Low

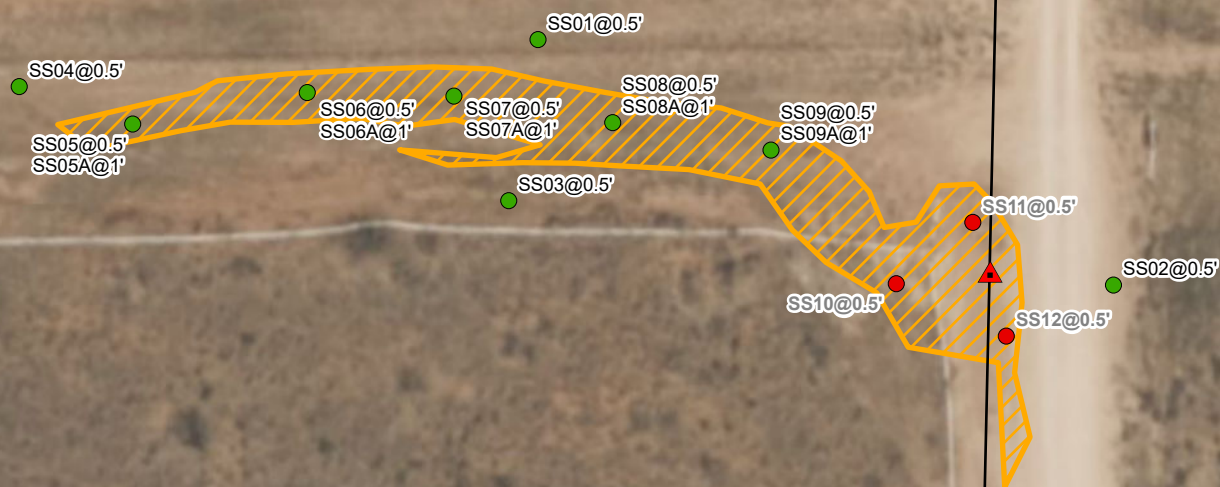
**Site Receptor Map**

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

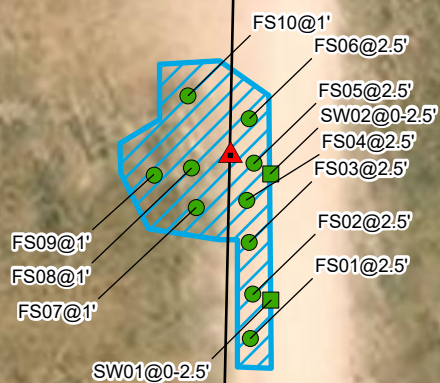
FIGURE

2

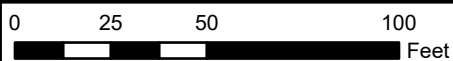


Legend

- ▲ 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 News Bulletins

- 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.

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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



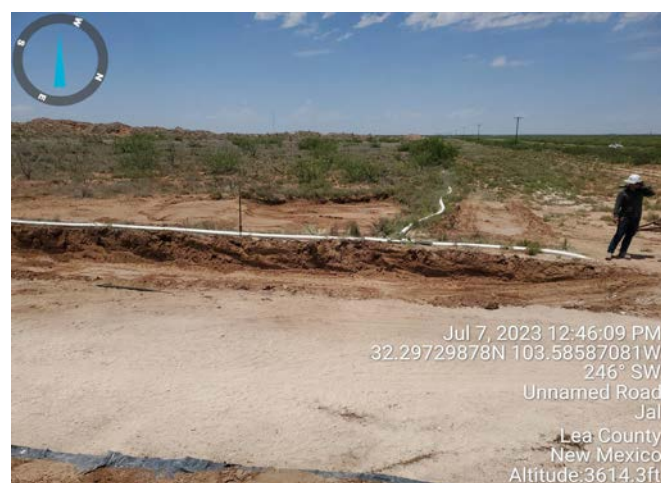
Photographic Log
 COG Operating, LLC
 Brinninstool Unit 003H
 NAPP2315635182



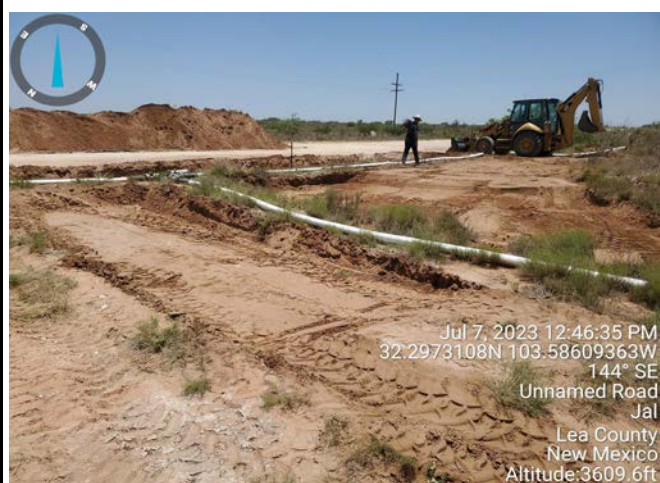
Photograph: 1 Date: 6/21/2023
 Description: Soil staining in release footprint
 View: West



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

Table of Contents

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QC Association Summary	24
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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

Eurofins Carlsbad

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

Eurofins Carlsbad

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	%Recovery	MS Qualifier	MS 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	%Recovery	MSD Qualifier	MSD 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	%Recovery	MB Qualifier	MB 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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	997.7		mg/Kg		100	70 - 130
Diesel Range Organics (Over C10-C28)	1000	943.5		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	96		70 - 130

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1010		mg/Kg		101	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	975.5		mg/Kg		98	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-4846-10 MS

Matrix: Solid

Analysis Batch: 56147

Client Sample ID: SS10

Prep Type: Total/NA

Prep Batch: 56210

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	999	867.4		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	155	F1	999	782.1	F1	mg/Kg		63	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: 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

	MSD	MSD	
Surrogate	%Recovery	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

Lab Sample ID: 890-4846-1

Date Collected: 06/21/23 11:30

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-2

Date Collected: 06/21/23 11:35

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-3

Date Collected: 06/21/23 11:40

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-4

Date Collected: 06/21/23 11:45

Matrix: Solid

Date Received: 06/21/23 15:26

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

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Lab Chronicle

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

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

Lab Sample ID: 890-4846-5

Date Collected: 06/21/23 12:00

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-6

Date Collected: 06/21/23 12:05

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-7

Date Collected: 06/21/23 12:10

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-7

Date Collected: 06/21/23 12:10

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-8

Date Collected: 06/21/23 12:15

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-9

Date Collected: 06/21/23 12:25

Matrix: Solid

Date Received: 06/21/23 15:26

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

Lab Sample ID: 890-4846-10

Date Collected: 06/21/23 12:30

Matrix: Solid

Date Received: 06/21/23 15:26

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

Eurofins Carlsbad

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



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

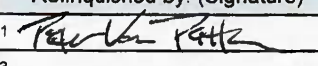
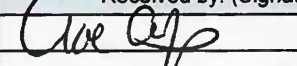
Project Manager:	Hadlie Green	Bill to: (if different)	Kalei Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com, 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:	03C2012037	☒ Routine ☐ Rush		Pres. Code													None: NO	DI Water: H ₂ O													
Project Location:	32.29733, -103.58598	Due Date:		Parameters	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)		890-4846 Chain of Custody								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																											H ₃ PO ₄ : HP	
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	7171007																											NaHSO ₄ : NABIS	
Cooler Custody Seals:	☒ Yes ☐ No ☒ N/A	Correction Factor:	-0.2														Na ₂ S ₂ O ₃ : NaSO ₃														
Sample Custody Seals:	☒ Yes ☐ No ☒ N/A	Temperature Reading:	4.2														Zn Acetate+NaOH: Zn														
Total Containers:		Corrected Temperature:	4.0														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 		6.21.23 1524			
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



Generated
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

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

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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

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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 Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
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 %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
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 %Recovery	LCS Qualifier	Limits
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 %Recovery	LCS Qualifier	Limits
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 Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 Limits	RPD	RPD Limit
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 %Recovery	LCSD Qualifier	Limits
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 %Recovery	MS Qualifier	Limits
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	
	MS	MS								
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	
	MSD	MSD										
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				
	MB	MB										
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
		LCS	LCS				
		%Recovery	Qualifier				
Surrogate			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
		LCSD	LCSD						
		%Recovery	Qualifier						
Surrogate			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

	MS	MS		
	%Recovery	Qualifier		
Surrogate		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

	MSD	MSD		
	%Recovery	Qualifier		
Surrogate		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

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

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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 (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

Lab Sample ID: 890-4914-4

Date Collected: 07/07/23 10:40

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	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

Lab Sample ID: 890-4914-5

Date Collected: 07/07/23 10:45

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			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

Lab Sample ID: 890-4914-6

Date Collected: 07/07/23 10:50

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			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

Lab Sample ID: 890-4914-7

Date Collected: 07/07/23 10:55

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	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

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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
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	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
Date Collected: 07/07/23 12:35
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-15
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	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
Date Collected: 07/07/23 12:40
Date Received: 07/07/23 14:57

Lab Sample ID: 890-4914-16
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	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
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
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: _____

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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:	03D2024197	☒ Routine ☐ Rush		Pres. Code													None: NO	DI Water: H ₂ O	
Project Location:	32.29733, -103.58598	Due Date:		Parameters	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)										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														H ₃ PO ₄ : HP		
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	72110037														NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes ☐ No ☒ N/A	Correction Factor:	-0.2	Na ₂ S ₂ O ₃ : NaSO ₃															
Sample Custody Seals:	Yes ☐ No ☒ N/A	Temperature Reading:	3.2	Zn Acetate+NaOH: Zn															
Total Containers:		Corrected Temperature:	3.0	NaOH+Ascorbic Acid: SAPC															
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													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
<i>Peter Van Patten</i>	<i>Cecilia</i>	7-7-23 1453			



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 2 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:		Brinninstool Unit 003H		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																			
Samples Received Intact:		Yes No		Thermometer ID:																									
Cooler Custody Seals:		Yes No N/A		Correction Factor:																									
Sample Custody Seals:		Yes No N/A		Temperature Reading:																									
Total Containers:				Corrected Temperature:																									
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)																	Sample Comments		
SS05A		Soil	7/7/2023	1215	1	Comp	1	x	x	x																			
SS06A		Soil	7/7/2023	1220	1	Comp	1	x	x	x																			
SS07A		Soil	7/7/2023	1225	1	Comp	1	x	x	x																			
SS08A		Soil	7/7/2023	1230	1	Comp	1	x	x	x																			
SS09A		Soil	7/7/2023	1235	1	Comp	1	x	x	x																			
SW01		Soil	7/7/2023	1240	1	Comp	1	x	x	x																			
SW02		Soil	7/7/2023	1245	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 <i>Peter Van Patten</i>	<i>Clare Cef</i>	7-7-23 1453			
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



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: 8/26/2025 8:13:27 AM Convert irregular shape into a series of rectangles								Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	NAP 20215625132 Page 260 of 305 Current Volume - RMR Handover Volume. (yd ³ .)	
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.)				
Rectangle A	60.0	30.0	0.4	Off-Pad ▾	15.02%	10.01	1.50	750	2.60	
Rectangle B	60.0	30.0	0.2	Off-Pad ▾	15.02%	5.34	0.80		1.39	
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: 9/8/2025 1:58:53 PM

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

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: _____

State of New Mexico
Oil Conservation Division

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 OCD 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



APPENDIX B

Photographic Log



Photographic Log
COG Operating, LLC
Brinninstool Unit 003H
NAPP2315635182

LAT: 32.297207 LON: -103.586029 ±1755ft



Photograph: 1
Description: BLM seed mix
View: Direct
Date: 10/23/2024

LAT: 32.297263 LON: -103.586020 ±26ft



Photograph: 2
Description: Reseeding activities
View: West
Date: 10/23/2024



Photograph: 3
Description: Backfill sampling activities
View: Northwest
Date: 11/18/2024



Photograph: 4
Description: Backfill sampling activities
View: Southeast
Date: 11/18/2024



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 11/20/2024 2:53:52 PM

JOB DESCRIPTION

Brinninstool Unit 3H
Lea County, NM

JOB NUMBER

880-51210-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization



Generated
11/20/2024 2:53:52 PM

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

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Laboratory Job ID: 880-51210-1
SDG: Lea County, NM

Table of Contents

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Definitions/Glossary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: Brinninstool Unit 3H

Job ID: 880-51210-1

Job ID: 880-51210-1

Eurofins Midland

Job Narrative 880-51210-1

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

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

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

Receipt

The samples were received on 11/18/2024 4:05 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 3.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (Caliche backfill) (880-51210-1) and CS-2 (Topsoil backfill) (880-51210-2).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-96013 and analytical batch 880-96065 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96074 and analytical batch 880-96095 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Client Sample ID: CS-1 (Caliche backfill)

Lab Sample ID: 880-51210-1

Date Collected: 11/18/24 11:35

Matrix: Solid

Date Received: 11/18/24 16:05

Sample Depth: 0.25

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		11/19/24 08:56	11/19/24 18:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/19/24 08:56	11/19/24 18:18	1
Ethylbenzene	0.00349		0.00201	mg/Kg		11/19/24 08:56	11/19/24 18:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/19/24 08:56	11/19/24 18:18	1
o-Xylene	0.0648		0.00201	mg/Kg		11/19/24 08:56	11/19/24 18:18	1
Xylenes, Total	0.0648		0.00402	mg/Kg		11/19/24 08:56	11/19/24 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	11/19/24 08:56	11/19/24 18:18	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/19/24 08:56	11/19/24 18:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0683		0.00402	mg/Kg			11/19/24 18:18	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			11/19/24 17:04	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		11/18/24 15:17	11/19/24 17:04	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/18/24 15:17	11/19/24 17:04	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/18/24 15:17	11/19/24 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	11/18/24 15:17	11/19/24 17:04	1
o-Terphenyl	71		70 - 130	11/18/24 15:17	11/19/24 17:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		9.98	mg/Kg			11/19/24 20:58	1

Client Sample ID: CS-2 (Topsoil backfill)

Lab Sample ID: 880-51210-2

Date Collected: 11/18/24 11:37

Matrix: Solid

Date Received: 11/18/24 16:05

Sample Depth: 0.25

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		11/19/24 08:56	11/19/24 18:39	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/19/24 08:56	11/19/24 18:39	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/19/24 08:56	11/19/24 18:39	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/19/24 08:56	11/19/24 18:39	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/19/24 08:56	11/19/24 18:39	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/19/24 08:56	11/19/24 18:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/19/24 08:56	11/19/24 18:39	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Client Sample ID: CS-2 (Topsoil backfill)

Lab Sample ID: 880-51210-2

Date Collected: 11/18/24 11:37

Matrix: Solid

Date Received: 11/18/24 16:05

Sample Depth: 0.25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	11/19/24 08:56	11/19/24 18:39	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			11/19/24 18:39	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			11/19/24 17:20	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/18/24 15:17	11/19/24 17:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/18/24 15:17	11/19/24 17:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/18/24 15:17	11/19/24 17:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			11/18/24 15:17	11/19/24 17:20	1
o-Terphenyl	80		70 - 130			11/18/24 15:17	11/19/24 17:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.1		10.0	mg/Kg			11/19/24 21:06	1

Surrogate Summary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)
Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-51210-1	CS-1 (Caliche backfill)	119	97
880-51210-2	CS-2 (Topsoil backfill)	116	95
LCS 880-96057/1-A	Lab Control Sample	102	95
LCSD 880-96057/2-A	Lab Control Sample Dup	105	101
MB 880-96057/5-A	Method Blank	111	90
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)
880-51210-1	CS-1 (Caliche backfill)	89	71
880-51210-2	CS-2 (Topsoil backfill)	102	80
LCS 880-96013/2-A	Lab Control Sample	93	85
LCSD 880-96013/3-A	Lab Control Sample Dup	93	84
MB 880-96013/1-A	Method Blank	166 S1+	132 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-96057/5-A

Matrix: Solid

Analysis Batch: 96051

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96057

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/19/24 08:56	11/19/24 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/19/24 08:56	11/19/24 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/19/24 08:56	11/19/24 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/19/24 08:56	11/19/24 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/19/24 08:56	11/19/24 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/19/24 08:56	11/19/24 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/19/24 08:56	11/19/24 11:26	1
1,4-Difluorobenzene (Surr)	90		70 - 130	11/19/24 08:56	11/19/24 11:26	1

Lab Sample ID: LCS 880-96057/1-A

Matrix: Solid

Analysis Batch: 96051

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1185		mg/Kg		119	70 - 130
Toluene	0.100	0.1133		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1111		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2266		mg/Kg		113	70 - 130
o-Xylene	0.100	0.1217		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-96057/2-A

Matrix: Solid

Analysis Batch: 96051

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96057

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1220		mg/Kg		122	70 - 130	3	35
Toluene	0.100	0.1141		mg/Kg		114	70 - 130	1	35
Ethylbenzene	0.100	0.1211		mg/Kg		121	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2336		mg/Kg		117	70 - 130	3	35
o-Xylene	0.100	0.1201		mg/Kg		120	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-96013/1-A

Matrix: Solid

Analysis Batch: 96065

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96013

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		11/18/24 15:17	11/19/24 07:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/18/24 15:17	11/19/24 07:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/18/24 15:17	11/19/24 07:11	1
Surrogate	%Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	166	S1+	70 - 130			11/18/24 15:17	11/19/24 07:11	1
o-Terphenyl	132	S1+	70 - 130			11/18/24 15:17	11/19/24 07:11	1

Lab Sample ID: LCS 880-96013/2-A

Matrix: Solid

Analysis Batch: 96065

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	987.4		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	790.7		mg/Kg		79	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	93		70 - 130				
o-Terphenyl	85		70 - 130				

Lab Sample ID: LCSD 880-96013/3-A

Matrix: Solid

Analysis Batch: 96065

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96013

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	988.8		mg/Kg		99	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	781.2		mg/Kg		78	70 - 130	1	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	93		70 - 130						
o-Terphenyl	84		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-96074/1-A

Matrix: Solid

Analysis Batch: 96095

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			11/19/24 19:12	1

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-96074/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 96095

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	256.0		mg/Kg		102	90 - 110

Lab Sample ID: LCSD 880-96074/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 96095

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	255.7		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 96051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	8021B	96057
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	8021B	96057
MB 880-96057/5-A	Method Blank	Total/NA	Solid	8021B	96057
LCS 880-96057/1-A	Lab Control Sample	Total/NA	Solid	8021B	96057
LCSD 880-96057/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96057

Prep Batch: 96057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	5035	
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	5035	
MB 880-96057/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96057/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96057/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 96196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	Total BTEX	
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 96013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	8015NM Prep	
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	8015NM Prep	
MB 880-96013/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96013/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96013/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	8015B NM	96013
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	8015B NM	96013
MB 880-96013/1-A	Method Blank	Total/NA	Solid	8015B NM	96013
LCS 880-96013/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96013
LCSD 880-96013/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96013

Analysis Batch: 96177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Total/NA	Solid	8015 NM	
880-51210-2	CS-2 (Topsoil backfill)	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 96074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Soluble	Solid	DI Leach	
880-51210-2	CS-2 (Topsoil backfill)	Soluble	Solid	DI Leach	
MB 880-96074/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96074/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96074/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

HPLC/IC

Analysis Batch: 96095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51210-1	CS-1 (Caliche backfill)	Soluble	Solid	300.0	96074
880-51210-2	CS-2 (Topsoil backfill)	Soluble	Solid	300.0	96074
MB 880-96074/1-A	Method Blank	Soluble	Solid	300.0	96074
LCS 880-96074/2-A	Lab Control Sample	Soluble	Solid	300.0	96074
LCSD 880-96074/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96074

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

Lab Chronicle

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Client Sample ID: CS-1 (Caliche backfill)
Date Collected: 11/18/24 11:35
Date Received: 11/18/24 16:05

Lab Sample ID: 880-51210-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96057	MNR	EET MID	11/19/24 08:56
Total/NA	Analysis	8021B		1	96051	MNR	EET MID	11/19/24 18:18
Total/NA	Analysis	Total BTEX		1	96196	SM	EET MID	11/19/24 18:18
Total/NA	Analysis	8015 NM		1	96177	SM	EET MID	11/19/24 17:04
Total/NA	Prep	8015NM Prep			96013	EL	EET MID	11/18/24 15:17
Total/NA	Analysis	8015B NM		1	96065	TKC	EET MID	11/19/24 17:04
Soluble	Leach	DI Leach			96074	SA	EET MID	11/19/24 09:43
Soluble	Analysis	300.0		1	96095	CH	EET MID	11/19/24 20:58

Client Sample ID: CS-2 (Topsoil backfill)
Date Collected: 11/18/24 11:37
Date Received: 11/18/24 16:05

Lab Sample ID: 880-51210-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96057	MNR	EET MID	11/19/24 08:56
Total/NA	Analysis	8021B		1	96051	MNR	EET MID	11/19/24 18:39
Total/NA	Analysis	Total BTEX		1	96196	SM	EET MID	11/19/24 18:39
Total/NA	Analysis	8015 NM		1	96177	SM	EET MID	11/19/24 17:20
Total/NA	Prep	8015NM Prep			96013	EL	EET MID	11/18/24 15:17
Total/NA	Analysis	8015B NM		1	96065	TKC	EET MID	11/19/24 17:20
Soluble	Leach	DI Leach			96074	SA	EET MID	11/19/24 09:43
Soluble	Analysis	300.0		1	96095	CH	EET MID	11/19/24 21:06

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum
Project/Site: Brinninstool Unit 3H

Job ID: 880-51210-1
SDG: Lea County, NM

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 3H

Job ID: 880-51210-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-51210-1	CS-1 (Caliche backfill)	Solid	11/18/24 11:35	11/18/24 16:05	0.25
880-51210-2	CS-2 (Topsoil backfill)	Solid	11/18/24 11:37	11/18/24 16:05	0.25

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of Custody

-4200, Dallas, TX (214) 902-0300
40, San Antonio, TX (210) 509-3334
10000, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-51210 Chain of Custody

Envirofins
Xenco

Work Order No: 210

www.xenco.com Page 1 of 1

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level I ☐ Level II ☐ Level III ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: 0302024197 (Hadlie Green) Bill to: (if different) Hadlie Green

Company Name: Ensofins, LLC Company Name: Ensofins, LLC

Address: 601 N Marienfield Address: Ensofins, LLC

City, State ZIP: Midland, Texas, 79701 City, State ZIP: Ensofins, LLC

Phone: 432-557-8895 Email: hgreen@ensofins.com

ANALYSIS REQUEST										Preservative Codes		
Project Name:	Project Number:	Project Location:	Sampler's Name:	PO #:	Temp Blank:	Yes	No	Wet Ice:	Yes	No	None	DI Water: H ₂ O
Drinninsten Unit 3H	0302024197	Lea County NM	Udeh Azuka	0302024197	Temp Blank:	Yes	No	Wet Ice:	Yes	No	Cool: Cool	MeOH: Me
					Samples Received Intact:	Yes	No	Thermometer ID:	Yes	No	HCL: HC	HNO ₃ : HN
					Cooler Custody Seals:	Yes	No	Correction Factor:	Yes	No	H ₂ SO ₄ : H ₂	NaOH: Na
					Sample Custody Seals:	Yes	No	Temperature Reading:	Yes	No	H ₃ PO ₄ : HP	
					Total Containers:	Yes	No	Corrected Temperature:	Yes	No	NaHSO ₄ : NABIS	
											Na ₂ S ₂ O ₃ : NaSO ₃	
											Zn Acetate+NaOH: Zn	
											NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Sample Comments
CS-1 (caliche backfill)	S	11/18/24	1135	0.25	C	1	X BTEX 8021
CS-2 (topsoil backfill)	S	11/18/24	1137	0.25	C	1	X TPH 8015
							X chloride 38

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$35.00 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
<u>[Signature]</u>	<u>[Signature]</u>	11/18/24	<u>[Signature]</u>	<u>[Signature]</u>	11/18/24 / 1055

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-51210-1
SDG Number: Lea County, NM

Login Number: 51210

List Number: 1

Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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

QUESTIONS

Action 417949

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2315635182
Incident Name	NAPP2315635182 BRINNINSTOOL UNIT 003H @ 30-025-41371
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-025-41371] BRINNINSTOOL UNIT #003H
Incident Facility	[fAPP2203246737] BRINNINSTOOL UNIT 3H BATTERY

Location of Release Source

Please answer all the questions in this group.

Site Name	BRINNINSTOOL UNIT 003H
Date Release Discovered	05/29/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Other (Specify) Released: 0 (Unknown Released Amount) Recovered: 0 Lost: 0
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 417949

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025
--	---

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QUESTIONS, Page 3

Action 417949

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3890
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	262
GRO+DRO (EPA SW-846 Method 8015M)	155
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	06/21/2023
On what date will (or did) the final sampling or liner inspection occur	07/07/2023
On what date will (or was) the remediation complete(d)	07/07/2023
What is the estimated surface area (in square feet) that will be reclaimed	1405
What is the estimated volume (in cubic yards) that will be reclaimed	120
What is the estimated surface area (in square feet) that will be remediated	1405
What is the estimated volume (in cubic yards) that will be remediated	120
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 417949

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	417949
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	BRINNINSTOOL UNIT 3H BATTERY [fAPP2203246737]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 417949

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 417949

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	417964
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/07/2023
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	3

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1405
What was the total volume (cubic yards) remediated	120
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1405
What was the total volume (in cubic yards) reclaimed	120
Summarize any additional remediation activities not included by answers (above)	excavation of impacted and waste-containing soil

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025
--	---

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QUESTIONS, Page 7

Action 417949

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1405
What was the total volume of replacement material (in cubic yards) for this site	120
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	10/23/2024
Summarize any additional reclamation activities not included by answers (above)	Reseeded entire release and excavation area to promote vegetation growth
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025

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QUESTIONS, Page 8

Action 417949

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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

CONDITIONS

Action 417949

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 417949
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
jburdine	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, the OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	3/31/2025

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QUESTIONS

Action 499225

QUESTIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 499225
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2315635182
Incident Name	NAPP2315635182 BRINNINSTOOL UNIT 003H @ 30-025-41371
Incident Type	Produced Water Release
Incident Status	Re-vegetation Report Received
Incident Well	[30-025-41371] BRINNINSTOOL UNIT #003H
Incident Facility	[fAPP2203246737] BRINNINSTOOL UNIT 3H BATTERY

Location of Release Source

Please answer all the questions in this group.

Site Name	BRINNINSTOOL UNIT 003H
Date Release Discovered	05/29/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Injection Produced Water Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 499225

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 499225
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 08/26/2025
--	--

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QUESTIONS, Page 3

Action 499225

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number: 499225
Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	3890
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	262
GRO+DRO (EPA SW-846 Method 8015M)	155
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	06/21/2023
On what date will (or did) the final sampling or liner inspection occur	07/07/2023
On what date will (or was) the remediation complete(d)	07/07/2023
What is the estimated surface area (in square feet) that will be reclaimed	1405
What is the estimated volume (in cubic yards) that will be reclaimed	120
What is the estimated surface area (in square feet) that will be remediated	1405
What is the estimated volume (in cubic yards) that will be remediated	120

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 499225

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 499225
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fAPP2203246737 BRINNINSTOOL UNIT 3H BATTERY
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 499225

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 499225
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 499225

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 499225
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	417964
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/07/2023
What was the (estimated) number of samples that were to be gathered	5
What was the sampling surface area in square feet	3

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1405
What was the total volume (cubic yards) remediated	120
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1405
What was the total volume (in cubic yards) reclaimed	120
Summarize any additional remediation activities not included by answers (above)	excavation of impacted and waste-containing soil
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025

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QUESTIONS, Page 7

Action 499225

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 499225
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	1405
What was the total volume of replacement material (in cubic yards) for this site	120
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeded commence(d)	10/23/2024
Summarize any additional reclamation activities not included by answers (above)	Reseeded entire release and excavation area to promote vegetation growth
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeded plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 01/07/2025

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QUESTIONS, Page 8

Action 499225

QUESTIONS (continued)

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 499225
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	Yes
What was the total revegetation surface area (in square feet) for this site	1405
<i>Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.</i>	
On what date did the reseeded commence	10/23/2024
On what date was the vegetative cover inspected	07/15/2025
What was the life form ratio compared to pre-disturbance levels	57
What was the total percent plant cover compared to pre-disturbance levels	75.6
Summarize any additional revegetation activities not included by answers (above)	NA
<i>The responsible party must attach information demonstrating they have complied with all applicable re-vegetation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any life form ratio and percent plant cover sampling diagrams or other relevant field notes, photographs of re-vegetated areas, and a narrative of the re-vegetation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Brittany Esparza Title: Environmental Technician Email: brittany.Esparza@ConocoPhillips.com Date: 08/26/2025
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 499225

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 499225
	Action Type: [C-141] Revegetation Report C-141 (C-141-v-Revegetation)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	9/8/2025