Closure Narrative
NW LYBROOK 131H Release 8.25.2024
Incident Number nAPP2424159147
36.2787552/-107.6411819
30-045-35507
Unit M 25 24N 8W
San Juan County, NM

8.25.2024

- A water tank was found to be leaking and approximately 132 bbls of produced water were released into the lined containment area.
- A small hole near the bottom of the tank.
- The tank was taken out of service when release was found and contents transferred to another tank. Repairs pending.
- A notification email was sent to the agencies (BLM/NMOCD) 8.28.2024 @ 2:36 pm.
- Hydro Vac truck arrived on location and began extraction of released fluid on liner, inside tank containment.
- Discovered that the liner had tears near the release area and wet. For precautionary measures the decision was made to take samples under the damaged liner to determine if it was rainwater or impacted soil.

9.13.2024

- Samples taken

10.7.2024

- Additional samples taken

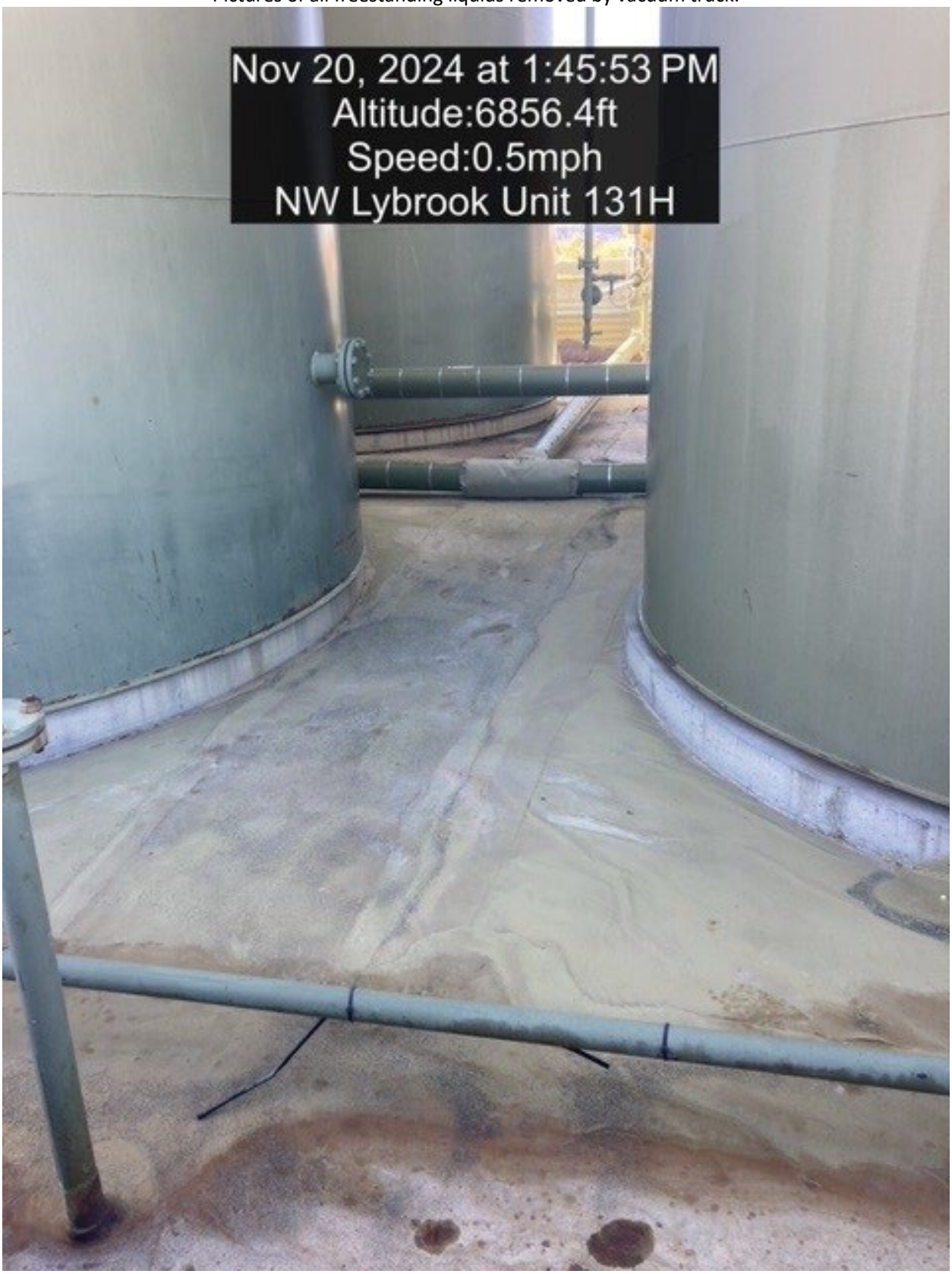
11.4.2024

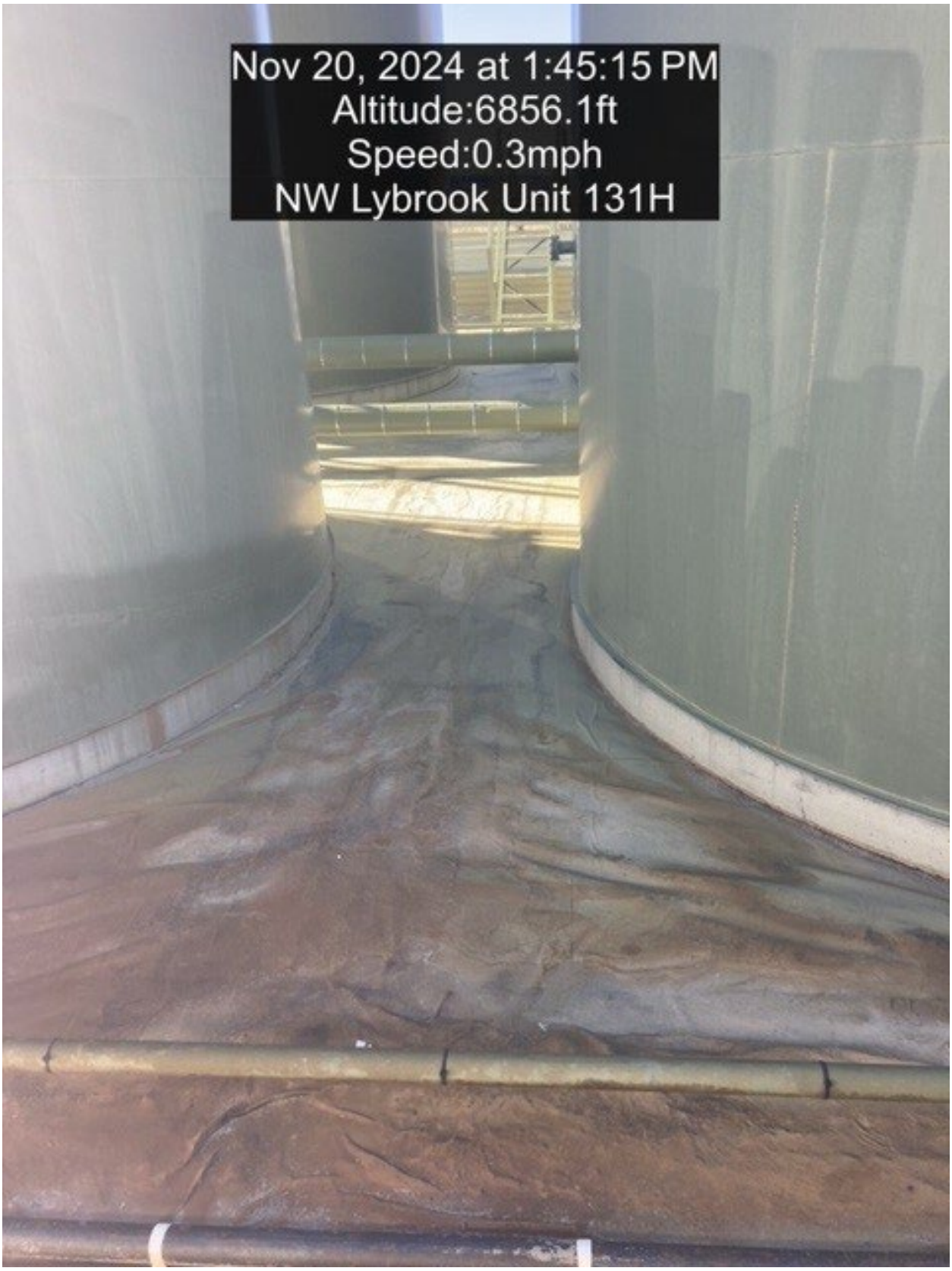
- Additional samples taken

Liner repairs are pending due to recent weather causing liner to be wet.


LYBROOK 2408 25M #237H
NW LYBROOK UNIT #131H
NW LYBROOK UNIT #289H
LEAKING TANK

Pictures of all freestanding liquids removed by vacuum truck.




Nov 20, 2024 at 1:45:15 PM
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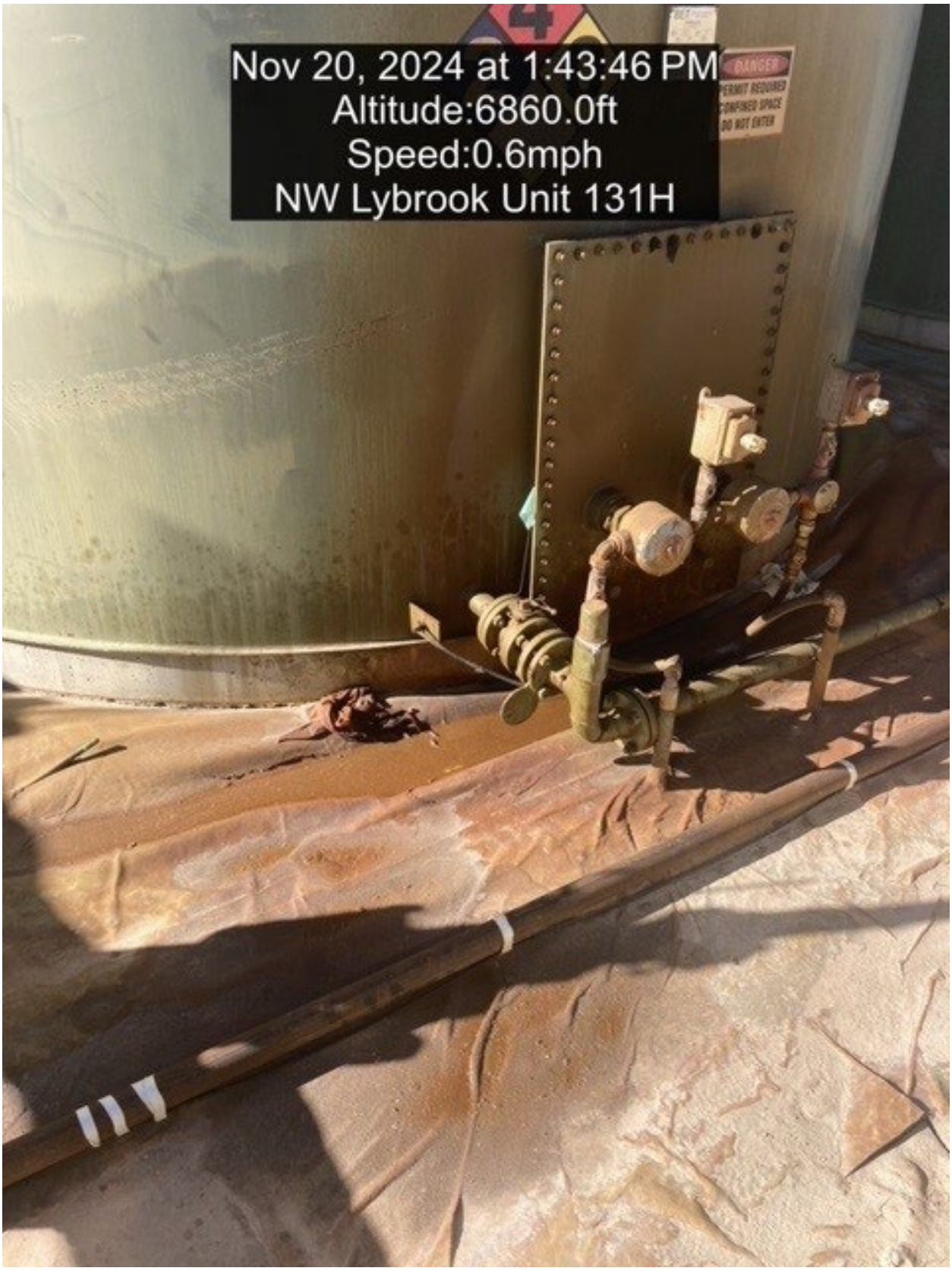
Speed:0.3mph
NW Lybrook Unit 131H


Nov 20, 2024 at 1:43:46 PM
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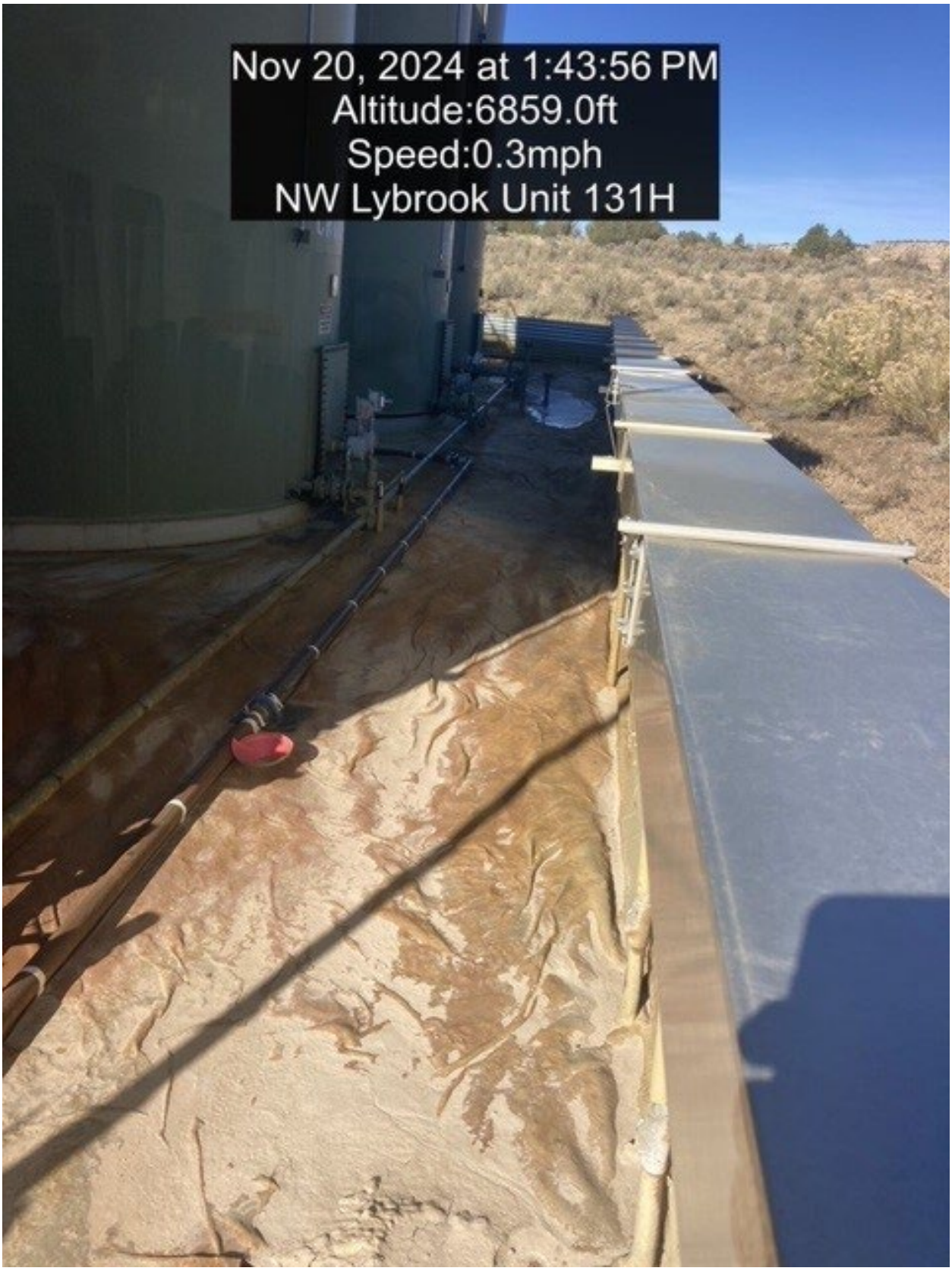
Speed:0.6mph
NW Lybrook Unit 131H
DANGER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Speed:0.3mph
NW Lybrook Unit 131H


Nov 20, 2024 at 1:43:07 PM
Altitude:6859.0ft
Speed:0.3mph
NW Lybrook Unit 131H

ENSOLUM

November 13, 2024

District III
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

Re: Deferral Request
NE Lybrook Unit 131H
API Number 30-045-35507
Incident Number nAPP2424159147
San Juan County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Enduring Resources (Enduring), has prepared this *Deferral Request* to document site assessment and remediation activities conducted to address a release of produced water at the Northeast Lybrook Unit 131H Crude Oil Production Facility (Site). Following a release of fluids into secondary containment, Enduring responded by safely removing and recovering released liquids using a vacuum truck. 132 barrels of released produced water were recovered. Following fluid recovery, site assessment activities were conducted in areas surrounding the containment and underneath the liner at the facility to evaluate site conditions. Based on the results of these activities, Enduring is submitting this *Deferral Request*, describing the release response and requesting deferral of final remediation for the above referenced incident number until major Site reconstruction and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 25, Township 24 North, Range 8 West, in San Juan County, New Mexico (36.278741° N, -107.641164° W) and is associated with oil and gas exploration and production operations on federal land (Figure 1).

On August 25, 2024, a leak was found from a small hole near the bottom of a water tank. Tank corrosion occurred allowing the fluid to release to the lined containment. The Site features are shown in Figure 2. Approximately 132 barrels of produced water were released into the lined containment, which was later recovered via vacuum trucks. The tank was taken out of service pending repair. Following removal of released fluids, site assessment activities were conducted to evaluate potential impact resulting from the released fluids.

Enduring reported the release to the Bureau of Land Management (BLM) and New Mexico Oil Conservation District (NMOCD) via email on August 28, 2024. A report of Undesirable Event was submitted to the United States Department of the Interior, BLM New Mexico Farmington Field Office on August 28, 2024. A Notification of Release Application was submitted to the NMOCD on August 28, 2024. The NMOCD approved the C-141 Application on September 9, 2024.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

Ensolum has applied Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) as the soil cleanup standards. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 0 and 50 feet below ground surface (bgs) based on the topographic setting. The nearest groundwater well is New Mexico Office of the State Engineer (NMOSE) well SJ-00960-S, located approximately 3,815 feet south of the Site. The water well was drilled to a depth of 250 feet below ground surface and used for road construction, however there is no recorded depth to water. The nearest well with data avilable is the NMOSE well SJ-01334. The well is 7,735 feet from the site to the Southeast. Elevation at the water well is approximately 6,947 feet above mean sea level, while elevation at the Site is 6,846 (101 feet lower than the water well). The depth to water measured in the water well was 40 feet below ground surface. Groundwater is therefore estimated to be between 0 and 50 feet bgs at the Site. All features used for depth to water determination are depicted on Figure 1, and the referenced well record is included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an arroyo, approximately 566 feet southwest of the Site, draining to Kimbeto Wash. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 1 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 diesel range organics (DRO) and motor oil range organics (MRO): 100 mg/kg
- Chloride: 600 mg/kg

DELINEATION ACTIVITIES

On September 13, 2024, soil samples were collected to evaluate the lateral and vertical release extent. Boreholes BH01 through BH09 were advanced to a depth of 4 feet bgs via hand auger within tank containment and also outside of the tank containment as shown on Figure 2. Discrete delineation soil samples were collected from each borehole at depths of 1-foot bgs and at the terminus of each boring (4 feet bgs). Soil samples were field screened for volatile organic compounds (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. 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 assessment and a photographic log is included in Attachment 2.

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 at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Environment Testing in Alburquerque, New Mexico, for analysis of 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 reports are included in Attachment 3.

On October 7, 2024, additional boreholes were installed and sampled per the above protocol in locations BH10, BH11, and BH12 (Figures 2). On November 4, 2024, an additional sample was collected from borehole location BH03 at a depth of 6 feet bgs to further advance the sample location depth and fully delineate the site impact.

Laboratory analytical results for all soil samples BH01 through BH12 indicated that all contaminants of concern concentrations were in compliance with the Closure Criteria, with the exception of shallow chloride impact in location BH03 and some minor TPH detections at a shallow location in sample location BH12. The impact identified at this active site is limited to two locations inside an active containment, with concentrations very near the closure standard. Data have fully delineated these impacts both laterally and vertically, as presented in this report.

DEFERRAL REQUEST

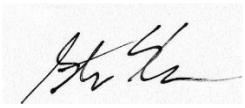
Enduring is requesting deferral of final remediation of soil represented by sample BH03 and BH12 due to the presence of active production equipment and infrastructure preventing full excavation of impacted soil at the edge of the containment. Enduring safety policy restricts soil disturbing activities within a 2-foot radius of any on-site, active production equipment. The deferral area is vertically defined to within the top 4 feet of surface cover. The deferral area is limited to locations directly surrounding the BH3 and BH12 location. Based on the data collected a deferred volume is estimated at approximately 5 yards of impacted soil total from the 2 locations BH3 and BH12 areas. The impacted area is limited to the upper four feet of surface cover, in a circular distribution with radius of 2 feet or less.

Ensolum and Enduring do not believe deferment will result in imminent risk to human health, the environment, or groundwater. Based on the limited evidence of impacted soil, presence of active production equipment and pipelines, and the complete lateral and vertical definition of impacted soil remaining in place, Enduring requests deferral of final remediation for Facility Number nAPP2424159147 until final reclamation of the well pad or major construction, whichever comes first.

If you have any questions or comments, please contact Mr. Steve Kahn at (303) 913-1350 (skahn@ensolum.com) or Mr. Danny Burns at (303) 601-1420 (dburns@ensolum.com).

Sincerely,
Ensolum, LLC

Danny Burns
Senior Geologist



Steve Kahn, MS, PE
Senior Managing Engineer

cc: Bureau of Land Management

Attachments:

Figure 1 Site Receptor Map
Figure 2 Delineation Sample Locations

Table 1 Soil Sample Analytical Results

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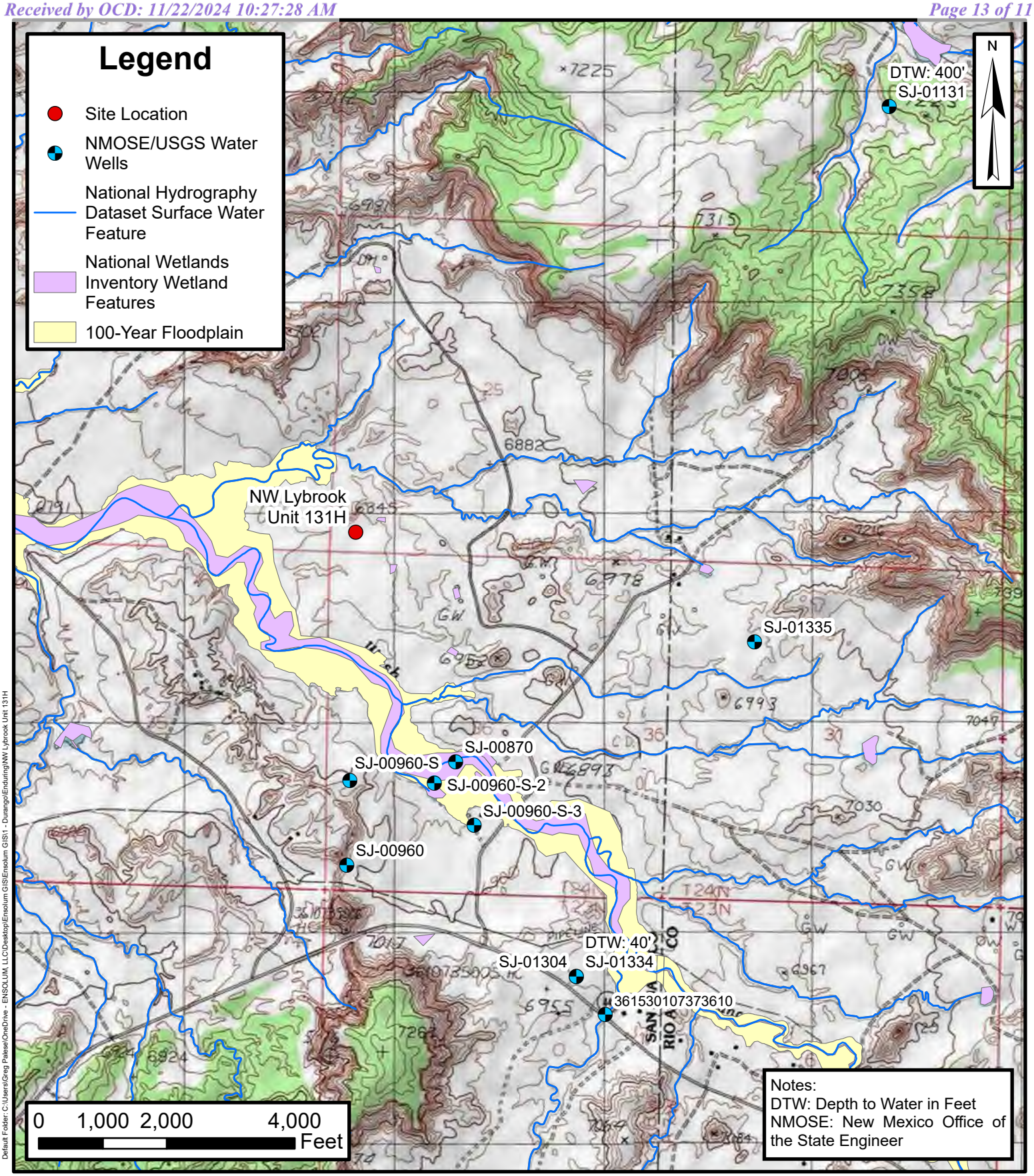
FIGURES



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ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

NW Lybrook Unit 131H
Enduring Resources, LLC
36.2787552,-107.6411819
San Juan County, New Mexico

FIGURE
1

Default Folder: C:\Users\Greg Pateet\OneDrive - ENSOLUM, LLC\Desktop\Ensolum GIS\Ensolum GIS\1 - Durango\Enduring\NW Lybrook Unit 131H

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Delineation Sample Locations

NW Lybrook Unit 131H
Enduring Resources, LLC

36.2787552,-107.6411819
San Juan County, New Mexico

FIGURE
2

Sources: Google Earth (2017)

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TABLE

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
NW Lybrook Unit 131H
Enduring Resources, LLC
San Juan County, New Mexico

Sample Identification	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
BH01@1'	9/13/2024	1	<0.025 F2 F1	<0.050 F2 F1	<0.050 F2 F1	<0.099 F2 F1	<0.099 F2 F1	<5.0	<9.7	<48	<48	<60
BH01@4'	9/13/2024	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.3	<46	<46	150
BH02@1'	9/13/2024	1	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<50	<60
BH02@4'	9/13/2024	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	<60
BH03@1'	9/13/2024	1	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<47	<47	**860**
BH03@4'	9/13/2024	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<49	**670**
BH03@6'	11/4/2024	6	<0.018	<0.036	<0.036	<0.073	<0.073	<0.073	<9.7	<48	<48	**300**
BH04@1'	9/13/2024	1	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	<60
BH04@4'	9/13/2024	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47	<60
BH05@1'	9/13/2024	1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.0	<45	<45	<60
BH05@4'	9/13/2024	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.8	<49	<49	<60
BH06@1'	9/13/2024	1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<48	<48	180
BH06@4'	9/13/2024	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.9	<50	<50	370
BH07@1'	9/13/2024	1	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.2	<46	<46	<60
BH07@4'	9/13/2024	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.6	<48	<48	<60
BH08@1'	9/13/2024	1	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	<60
BH08@4'	9/13/2024	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	<60
BH09@1'	9/13/2024	1	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.8	<49	<49	<60
BH09@4'	9/13/2024	4	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	73
BH10@1'	10/7/2024	1	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<8.8	<44	<44	<60
BH10@4'	10/7/2024	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	<60
BH11@1'	10/7/2024	1	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.5	<47	<47	<60
BH11@4'	10/7/2024	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	9.9	<48	9.9	<60
BH12@1'	10/7/2024	1	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	200	160	**360**	110
BH12@4'	10/7/2024	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	34	<46	34	<60

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
mg/kg: Milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
--: Not Analyzed
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon
': Feet
< : Indicates result less than the stated laboratory reporting limit (RL)
*Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table I Closure Criteria for Soils Impacted by a Release*

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ATTACHMENT 1

Referenced Well Records

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	SJ 01131		NW	SE	19	24N	07W	265313.0	4020131.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	862	**Driller Company:**	WESTERN DRILLING CO.		
Driller Name:					
Drill Start Date:	1980-04-22	**Drill Finish Date:**	1980-04-30	**Plug Date:**	
Log File Date:	1980-06-16	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	30
Casing Size:	7.00	**Depth Well:**	1700	**Depth Water:**	400

Water Bearing Stratifications:

Top	Bottom	Description
1200	1340	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
1100	1400

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

10/1/24 9:22 AM MST **Point of Diversion Summary**

Point of Diversion Summary

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

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	SJ 01334			NE	01	23N	08W	263823.0	4015987.0 *	

*** UTM location was derived from PLSS - see Help**

Driller License:	777	**Driller Company:**	JOHNNY'S LUCKY 7 DRILLING		
Driller Name:	JOHNNIE'S LUCKY "7" DRLG.				
Drill Start Date:	1981-02-08	**Drill Finish Date:**	1981-02-13	**Plug Date:**	
Log File Date:	1981-02-19	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	3
Casing Size:	5.00	**Depth Well:**	90	**Depth Water:**	40

Water Bearing Stratifications:

Top	Bottom	Description
55	60	Shale/Mudstone/Siltstone

Casing Perforations:

Top	Bottom
70	85

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

10/1/24 9:24 AM MST **Point of Diversion Summary**

ENSOLUM

ATTACHMENT 2

Photographic Log

NW Lybrook 131H SAMPLING

Project: NW Lybrook 131H SAMPLING
Company: Ensolum
Report date: 10.17.2024 11:51

Date & time: 10.07.2024 11:57
Notes: BH10, still wet down to 4 feet
Coordinates: 36.2788, -107.6403
Direction: NE (41°)

Date & time: 10.07.2024 11:59
Notes: Saturated under liner between BH10 and BH11
Coordinates: 36.27883, -107.64028
Direction: S (186°)

NW Lybrook 131H SAMPLING

Project: NW Lybrook 131H SAMPLING
Company: Ensolum
Report date: 10.17.2024 11:51

Date & time: 10.07.2024 12:09
Notes: BH11
Coordinates: 36.27889, -107.6403
Direction: N (16°)

Date & time: 10.07.2024 12:13
Notes: BH12
Coordinates: 36.27898, -107.64021
Direction: NE (29°)

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ATTACHMENT 3

Laboratory Analytical Reports and Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Danny Burns
Ensolum LLC
776 E 2nd Avenue
Durango, Colorado 81301

Generated 9/30/2024 3:49:16 PM

JOB DESCRIPTION

NWLU 131H

JOB NUMBER

885-11840-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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Authorized for release by
Catherine Upton, Project Manager
Catherine.upton@et.eurofinsus.com
(505)345-3975

Client: Ensolum LLC
Project/Site: NWLU 131H

Laboratory Job ID: 885-11840-1

Table of Contents

Definitions/Glossary

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

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 LLC
Project: NWLU 131H

Job ID: 885-11840-1

Job ID: 885-11840-1 Eurofins Albuquerque

Job Narrative
885-11840-1

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 9/14/2024 6:25 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.7°C.

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

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 8015D_DRO: The continuing calibration verification (CCV) associated with batch 885-12456 recovered above the upper control limit for Di-n-octyl phthalate (Surr). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. All surrogates passed for associated samples, data is unaffected.

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 LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH01@1'

Date Collected: 09/13/24 12:20
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-1

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/16/24 13:25	09/18/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*09/16/24 13:25*	*09/18/24 17:07*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	F2 F1	0.025		mg/Kg		09/16/24 13:25	09/18/24 17:07	1
Ethylbenzene	ND	F2 F1	0.050		mg/Kg		09/16/24 13:25	09/18/24 17:07	1
Toluene	ND	F2 F1	0.050		mg/Kg		09/16/24 13:25	09/18/24 17:07	1
Xylenes, Total	ND	F2 F1	0.099		mg/Kg		09/16/24 13:25	09/18/24 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/16/24 13:25*	*09/18/24 17:07*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		09/17/24 11:37	09/18/24 15:35	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/17/24 11:37	09/18/24 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*125*		*62 - 134*	*09/17/24 11:37*	*09/18/24 15:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 18:49	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH01@4'

Date Collected: 09/13/24 13:05
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-2

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		09/16/24 13:25	09/18/24 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/16/24 13:25*	*09/18/24 18:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/16/24 13:25	09/18/24 18:12	1
Ethylbenzene	ND		0.047		mg/Kg		09/16/24 13:25	09/18/24 18:12	1
Toluene	ND		0.047		mg/Kg		09/16/24 13:25	09/18/24 18:12	1
Xylenes, Total	ND		0.095		mg/Kg		09/16/24 13:25	09/18/24 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/16/24 13:25*	*09/18/24 18:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/17/24 11:37	09/18/24 15:47	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/17/24 11:37	09/18/24 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*09/17/24 11:37*	*09/18/24 15:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**150**		60		mg/Kg		09/17/24 16:05	09/17/24 19:35	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH02@1'

Date Collected: 09/13/24 13:00
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-3

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		09/16/24 13:25	09/18/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*09/16/24 13:25*	*09/18/24 18:34*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/16/24 13:25	09/18/24 18:34	1
Ethylbenzene	ND		0.048		mg/Kg		09/16/24 13:25	09/18/24 18:34	1
Toluene	ND		0.048		mg/Kg		09/16/24 13:25	09/18/24 18:34	1
Xylenes, Total	ND		0.096		mg/Kg		09/16/24 13:25	09/18/24 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/16/24 13:25*	*09/18/24 18:34*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/17/24 11:37	09/18/24 15:58	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/17/24 11:37	09/18/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*09/17/24 11:37*	*09/18/24 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 19:50	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH02@4'

Date Collected: 09/13/24 13:15
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-4

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/16/24 13:25	09/18/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/16/24 13:25*	*09/18/24 19:18*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/16/24 13:25	09/18/24 19:18	1
Ethylbenzene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 19:18	1
Toluene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 19:18	1
Xylenes, Total	ND		0.099		mg/Kg		09/16/24 13:25	09/18/24 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/16/24 13:25*	*09/18/24 19:18*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/17/24 11:37	09/18/24 16:09	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/17/24 11:37	09/18/24 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*09/17/24 11:37*	*09/18/24 16:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 20:05	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH03@1'

Date Collected: 09/13/24 13:20
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-5

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		09/16/24 13:25	09/18/24 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*09/16/24 13:25*	*09/18/24 19:39*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/16/24 13:25	09/18/24 19:39	1
Ethylbenzene	ND		0.048		mg/Kg		09/16/24 13:25	09/18/24 19:39	1
Toluene	ND		0.048		mg/Kg		09/16/24 13:25	09/18/24 19:39	1
Xylenes, Total	ND		0.096		mg/Kg		09/16/24 13:25	09/18/24 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/16/24 13:25*	*09/18/24 19:39*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/17/24 11:37	09/18/24 16:20	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/17/24 11:37	09/18/24 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*09/17/24 11:37*	*09/18/24 16:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**860**		60		mg/Kg		09/17/24 16:05	09/17/24 20:20	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH03@4'

Date Collected: 09/13/24 13:40
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-6

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/16/24 13:25	09/18/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*35 - 166*	*09/16/24 13:25*	*09/18/24 20:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/16/24 13:25	09/18/24 20:01	1
Ethylbenzene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 20:01	1
Toluene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 20:01	1
Xylenes, Total	ND		0.10		mg/Kg		09/16/24 13:25	09/18/24 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/16/24 13:25*	*09/18/24 20:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/17/24 11:37	09/18/24 16:30	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/17/24 11:37	09/18/24 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*102*		*62 - 134*	*09/17/24 11:37*	*09/18/24 16:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**670**		60		mg/Kg		09/17/24 16:05	09/17/24 20:35	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH04@1'

Date Collected: 09/13/24 13:20
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-7

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		09/16/24 13:25	09/18/24 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/16/24 13:25*	*09/18/24 20:23*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/16/24 13:25	09/18/24 20:23	1
Ethylbenzene	ND		0.049		mg/Kg		09/16/24 13:25	09/18/24 20:23	1
Toluene	ND		0.049		mg/Kg		09/16/24 13:25	09/18/24 20:23	1
Xylenes, Total	ND		0.098		mg/Kg		09/16/24 13:25	09/18/24 20:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/16/24 13:25*	*09/18/24 20:23*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/17/24 11:37	09/18/24 16:41	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/17/24 11:37	09/18/24 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*129*		*62 - 134*	*09/17/24 11:37*	*09/18/24 16:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 20:50	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH04@'4

Date Collected: 09/13/24 13:30
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-8

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		09/16/24 13:25	09/18/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*35 - 166*	*09/16/24 13:25*	*09/18/24 20:45*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/16/24 13:25	09/18/24 20:45	1
Ethylbenzene	ND		0.049		mg/Kg		09/16/24 13:25	09/18/24 20:45	1
Toluene	ND		0.049		mg/Kg		09/16/24 13:25	09/18/24 20:45	1
Xylenes, Total	ND		0.099		mg/Kg		09/16/24 13:25	09/18/24 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*09/16/24 13:25*	*09/18/24 20:45*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		09/17/24 11:37	09/18/24 17:03	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/17/24 11:37	09/18/24 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*09/17/24 11:37*	*09/18/24 17:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 21:06	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH05@1'

Date Collected: 09/13/24 13:45
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-9

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/16/24 13:25	09/18/24 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*35 - 166*	*09/16/24 13:25*	*09/18/24 21:50*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/16/24 13:25	09/18/24 21:50	1
Ethylbenzene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 21:50	1
Toluene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 21:50	1
Xylenes, Total	ND		0.099		mg/Kg		09/16/24 13:25	09/18/24 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/16/24 13:25*	*09/18/24 21:50*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.0		mg/Kg		09/17/24 11:37	09/18/24 17:14	1
Motor Oil Range Organics [C28-C40]	ND		45		mg/Kg		09/17/24 11:37	09/18/24 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*09/17/24 11:37*	*09/18/24 17:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 21:51	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH05@4'

Date Collected: 09/13/24 13:50
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-10

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		09/16/24 13:25	09/18/24 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/16/24 13:25*	*09/18/24 22:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/16/24 13:25	09/18/24 22:12	1
Ethylbenzene	ND		0.048		mg/Kg		09/16/24 13:25	09/18/24 22:12	1
Toluene	ND		0.048		mg/Kg		09/16/24 13:25	09/18/24 22:12	1
Xylenes, Total	ND		0.095		mg/Kg		09/16/24 13:25	09/18/24 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*09/16/24 13:25*	*09/18/24 22:12*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/17/24 11:37	09/18/24 17:25	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/17/24 11:37	09/18/24 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*09/17/24 11:37*	*09/18/24 17:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 22:37	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH06@1'

Date Collected: 09/13/24 14:00
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-11

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		09/16/24 13:25	09/18/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*35 - 166*	*09/16/24 13:25*	*09/18/24 22:33*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/16/24 13:25	09/18/24 22:33	1
Ethylbenzene	ND		0.049		mg/Kg		09/16/24 13:25	09/18/24 22:33	1
Toluene	ND		0.049		mg/Kg		09/16/24 13:25	09/18/24 22:33	1
Xylenes, Total	ND		0.099		mg/Kg		09/16/24 13:25	09/18/24 22:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/16/24 13:25*	*09/18/24 22:33*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		09/17/24 11:37	09/18/24 17:35	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/17/24 11:37	09/18/24 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*124*		*62 - 134*	*09/17/24 11:37*	*09/18/24 17:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**180**		59		mg/Kg		09/17/24 16:05	09/17/24 22:52	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH06@4'

Date Collected: 09/13/24 14:10
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-12

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		09/16/24 13:25	09/18/24 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/16/24 13:25*	*09/18/24 22:55*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/16/24 13:25	09/18/24 22:55	1
Ethylbenzene	ND		0.046		mg/Kg		09/16/24 13:25	09/18/24 22:55	1
Toluene	ND		0.046		mg/Kg		09/16/24 13:25	09/18/24 22:55	1
Xylenes, Total	ND		0.093		mg/Kg		09/16/24 13:25	09/18/24 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/16/24 13:25*	*09/18/24 22:55*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		09/17/24 11:37	09/18/24 17:46	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/17/24 11:37	09/18/24 17:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*09/17/24 11:37*	*09/18/24 17:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**370**		60		mg/Kg		09/17/24 16:05	09/17/24 23:07	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH07@1'

Date Collected: 09/13/24 14:15
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-13

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		09/16/24 13:34	09/18/24 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*35 - 166*	*09/16/24 13:34*	*09/18/24 23:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/16/24 13:34	09/18/24 23:17	1
Ethylbenzene	ND		0.047		mg/Kg		09/16/24 13:34	09/18/24 23:17	1
Toluene	ND		0.047		mg/Kg		09/16/24 13:34	09/18/24 23:17	1
Xylenes, Total	ND		0.094		mg/Kg		09/16/24 13:34	09/18/24 23:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*09/16/24 13:34*	*09/18/24 23:17*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		09/17/24 11:37	09/18/24 17:57	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		09/17/24 11:37	09/18/24 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*09/17/24 11:37*	*09/18/24 17:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 23:22	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH07@4'

Date Collected: 09/13/24 14:20
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-14

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		09/16/24 13:34	09/18/24 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*35 - 166*	*09/16/24 13:34*	*09/18/24 23:39*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/16/24 13:34	09/18/24 23:39	1
Ethylbenzene	ND		0.048		mg/Kg		09/16/24 13:34	09/18/24 23:39	1
Toluene	ND		0.048		mg/Kg		09/16/24 13:34	09/18/24 23:39	1
Xylenes, Total	ND		0.095		mg/Kg		09/16/24 13:34	09/18/24 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/16/24 13:34*	*09/18/24 23:39*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.6		mg/Kg		09/17/24 11:37	09/18/24 18:08	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		09/17/24 11:37	09/18/24 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*09/17/24 11:37*	*09/18/24 18:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 23:37	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH08@1'

Date Collected: 09/13/24 14:30
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-15

Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		09/16/24 13:34	09/19/24 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*35 - 166*	*09/16/24 13:34*	*09/19/24 00:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/16/24 13:34	09/19/24 00:01	1
Ethylbenzene	ND		0.049		mg/Kg		09/16/24 13:34	09/19/24 00:01	1
Toluene	ND		0.049		mg/Kg		09/16/24 13:34	09/19/24 00:01	1
Xylenes, Total	ND		0.098		mg/Kg		09/16/24 13:34	09/19/24 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*09/16/24 13:34*	*09/19/24 00:01*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		09/17/24 11:37	09/18/24 18:20	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		09/17/24 11:37	09/18/24 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*99*		*62 - 134*	*09/17/24 11:37*	*09/18/24 18:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/17/24 23:52	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH08@4'

Date Collected: 09/13/24 14:35
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-16
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		09/16/24 13:34	09/19/24 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*09/16/24 13:34*	*09/19/24 00:22*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/16/24 13:34	09/19/24 00:22	1
Ethylbenzene	ND		0.049		mg/Kg		09/16/24 13:34	09/19/24 00:22	1
Toluene	ND		0.049		mg/Kg		09/16/24 13:34	09/19/24 00:22	1
Xylenes, Total	ND		0.097		mg/Kg		09/16/24 13:34	09/19/24 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*	*09/16/24 13:34*	*09/19/24 00:22*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		09/17/24 11:37	09/18/24 18:31	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		09/17/24 11:37	09/18/24 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*129*		*62 - 134*	*09/17/24 11:37*	*09/18/24 18:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/18/24 00:08	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH09@1'

Date Collected: 09/13/24 14:40
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-17
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		09/16/24 13:34	09/19/24 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*35 - 166*	*09/16/24 13:34*	*09/19/24 00:44*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		09/16/24 13:34	09/19/24 00:44	1
Ethylbenzene	ND		0.046		mg/Kg		09/16/24 13:34	09/19/24 00:44	1
Toluene	ND		0.046		mg/Kg		09/16/24 13:34	09/19/24 00:44	1
Xylenes, Total	ND		0.092		mg/Kg		09/16/24 13:34	09/19/24 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*48 - 145*	*09/16/24 13:34*	*09/19/24 00:44*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/17/24 11:37	09/18/24 18:42	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/17/24 11:37	09/18/24 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*09/17/24 11:37*	*09/18/24 18:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		09/17/24 16:05	09/18/24 00:23	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH09@4'

Date Collected: 09/13/24 14:45
Date Received: 09/14/24 06:25

Lab Sample ID: 885-11840-18
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		09/16/24 13:34	09/19/24 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*09/16/24 13:34*	*09/19/24 01:06*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		09/16/24 13:34	09/19/24 01:06	1
Ethylbenzene	ND		0.047		mg/Kg		09/16/24 13:34	09/19/24 01:06	1
Toluene	ND		0.047		mg/Kg		09/16/24 13:34	09/19/24 01:06	1
Xylenes, Total	ND		0.094		mg/Kg		09/16/24 13:34	09/19/24 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*48 - 145*	*09/16/24 13:34*	*09/19/24 01:06*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		09/17/24 11:37	09/18/24 19:04	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		09/17/24 11:37	09/18/24 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*09/17/24 11:37*	*09/18/24 19:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**73**		60		mg/Kg		09/18/24 09:25	09/19/24 10:39	20

QC Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-12318/1-A
Matrix: Solid
Analysis Batch: 12552

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12318

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		09/16/24 13:25	09/18/24 15:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*35 - 166*	*09/16/24 13:25*	*09/18/24 15:40*	*1*

Lab Sample ID: LCS 885-12318/2-A
Matrix: Solid
Analysis Batch: 12552

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12318

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	28.3		mg/Kg		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*236*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-12318/1-A
Matrix: Solid
Analysis Batch: 12556

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12318

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		09/16/24 13:25	09/18/24 15:40	1
Ethylbenzene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 15:40	1
Toluene	ND		0.050		mg/Kg		09/16/24 13:25	09/18/24 15:40	1
Xylenes, Total	ND		0.10		mg/Kg		09/16/24 13:25	09/18/24 15:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*09/16/24 13:25*	*09/18/24 15:40*	*1*

Lab Sample ID: LCS 885-12318/3-A
Matrix: Solid
Analysis Batch: 12556

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12318

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.03		mg/Kg		103	70 - 130		
Ethylbenzene			1.00	1.05		mg/Kg		105	70 - 130		
m,p-Xylene			2.00	2.09		mg/Kg		105	70 - 130		
o-Xylene			1.00	1.03		mg/Kg		103	70 - 130		
Toluene			1.00	1.04		mg/Kg		104	70 - 130		
Xylenes, Total			3.00	3.12		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*48 - 145*

QC Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

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

Lab Sample ID: 885-11840-1 MS
Matrix: Solid
Analysis Batch: 12783

Client Sample ID: BH01@1'
Prep Type: Total/NA
Prep Batch: 12318

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND	F2 F1	0.995	0.980		mg/Kg		98	70 - 130
Ethylbenzene	ND	F2 F1	0.995	1.02		mg/Kg		103	70 - 130
m,p-Xylene	ND	F2 F1	1.99	2.05		mg/Kg		103	70 - 130
o-Xylene	ND	F2 F1	0.995	1.01		mg/Kg		101	70 - 130
Toluene	ND	F2 F1	0.995	1.01		mg/Kg		101	70 - 130
Xylenes, Total	ND	F2 F1	2.99	3.06		mg/Kg		103	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*

Lab Sample ID: 885-11840-1 MSD
Matrix: Solid
Analysis Batch: 12556

Client Sample ID: BH01@1'
Prep Type: Total/NA
Prep Batch: 12318

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND	F2 F1	0.990	0.971	F2	mg/Kg		98	70 - 130	194	20
Ethylbenzene	ND	F2 F1	0.990	1.00	F2	mg/Kg		101	70 - 130	193	20
m,p-Xylene	ND	F2 F1	1.98	2.00	F2	mg/Kg		101	70 - 130	192	20
o-Xylene	ND	F2 F1	0.990	0.987	F2	mg/Kg		100	70 - 130	193	20
Toluene	ND	F2 F1	0.990	0.988	F2	mg/Kg		100	70 - 130	193	20
Xylenes, Total	ND	F2 F1	2.97	2.99	F2	mg/Kg		101	70 - 130	192	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-12395/1-A
Matrix: Solid
Analysis Batch: 12456

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12395

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		09/17/24 11:37	09/18/24 15:03	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		09/17/24 11:37	09/18/24 15:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*09/17/24 11:37*	*09/18/24 15:03*	*1*

Lab Sample ID: LCS 885-12395/2-A
Matrix: Solid
Analysis Batch: 12456

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12395

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]			50.0	48.5		mg/Kg		97	60 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*

Eurofins Albuquerque

QC Sample Results

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-12426/1-A
Matrix: Solid
Analysis Batch: 12410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 12426

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		09/17/24 16:05	09/17/24 17:03	1

Lab Sample ID: LCS 885-12426/2-A
Matrix: Solid
Analysis Batch: 12410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 12426

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	30.9		mg/Kg		103	90 - 110		

Lab Sample ID: 885-11840-8 MS
Matrix: Solid
Analysis Batch: 12410

Client Sample ID: BH04@'4
Prep Type: Total/NA
Prep Batch: 12426

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150		

Lab Sample ID: 885-11840-8 MSD
Matrix: Solid
Analysis Batch: 12410

Client Sample ID: BH04@'4
Prep Type: Total/NA
Prep Batch: 12426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		30.2	ND		mg/Kg		NC	50 - 150	NC	20

QC Association Summary

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

GC VOA

Prep Batch: 12318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-1	BH01@1'	Total/NA	Solid	5030C	
885-11840-2	BH01@4'	Total/NA	Solid	5030C	
885-11840-3	BH02@1'	Total/NA	Solid	5030C	
885-11840-4	BH02@4'	Total/NA	Solid	5030C	
885-11840-5	BH03@1'	Total/NA	Solid	5030C	
885-11840-6	BH03@4'	Total/NA	Solid	5030C	
885-11840-7	BH04@1'	Total/NA	Solid	5030C	
885-11840-8	BH04@'4	Total/NA	Solid	5030C	
885-11840-9	BH05@1'	Total/NA	Solid	5030C	
885-11840-10	BH05@4'	Total/NA	Solid	5030C	
885-11840-11	BH06@1'	Total/NA	Solid	5030C	
885-11840-12	BH06@4'	Total/NA	Solid	5030C	
885-11840-13	BH07@1'	Total/NA	Solid	5030C	
885-11840-14	BH07@4'	Total/NA	Solid	5030C	
885-11840-15	BH08@1'	Total/NA	Solid	5030C	
885-11840-16	BH08@4'	Total/NA	Solid	5030C	
885-11840-17	BH09@1'	Total/NA	Solid	5030C	
885-11840-18	BH09@4'	Total/NA	Solid	5030C	
MB 885-12318/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-12318/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-12318/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-11840-1 MS	BH01@1'	Total/NA	Solid	5030C	
885-11840-1 MSD	BH01@1'	Total/NA	Solid	5030C	

Analysis Batch: 12552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-1	BH01@1'	Total/NA	Solid	8015D	12318
885-11840-2	BH01@4'	Total/NA	Solid	8015D	12318
885-11840-3	BH02@1'	Total/NA	Solid	8015D	12318
885-11840-4	BH02@4'	Total/NA	Solid	8015D	12318
885-11840-5	BH03@1'	Total/NA	Solid	8015D	12318
885-11840-6	BH03@4'	Total/NA	Solid	8015D	12318
885-11840-7	BH04@1'	Total/NA	Solid	8015D	12318
885-11840-8	BH04@'4	Total/NA	Solid	8015D	12318
885-11840-9	BH05@1'	Total/NA	Solid	8015D	12318
885-11840-10	BH05@4'	Total/NA	Solid	8015D	12318
885-11840-11	BH06@1'	Total/NA	Solid	8015D	12318
885-11840-12	BH06@4'	Total/NA	Solid	8015D	12318
885-11840-13	BH07@1'	Total/NA	Solid	8015D	12318
885-11840-14	BH07@4'	Total/NA	Solid	8015D	12318
885-11840-15	BH08@1'	Total/NA	Solid	8015D	12318
885-11840-16	BH08@4'	Total/NA	Solid	8015D	12318
885-11840-17	BH09@1'	Total/NA	Solid	8015D	12318
885-11840-18	BH09@4'	Total/NA	Solid	8015D	12318
MB 885-12318/1-A	Method Blank	Total/NA	Solid	8015D	12318
LCS 885-12318/2-A	Lab Control Sample	Total/NA	Solid	8015D	12318

Analysis Batch: 12556

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-1	BH01@1'	Total/NA	Solid	8021B	12318
885-11840-2	BH01@4'	Total/NA	Solid	8021B	12318

QC Association Summary

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

GC VOA (Continued)

Analysis Batch: 12556 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-3	BH02@1'	Total/NA	Solid	8021B	12318
885-11840-4	BH02@4'	Total/NA	Solid	8021B	12318
885-11840-5	BH03@1'	Total/NA	Solid	8021B	12318
885-11840-6	BH03@4'	Total/NA	Solid	8021B	12318
885-11840-7	BH04@1'	Total/NA	Solid	8021B	12318
885-11840-8	BH04@'4	Total/NA	Solid	8021B	12318
885-11840-9	BH05@1'	Total/NA	Solid	8021B	12318
885-11840-10	BH05@4'	Total/NA	Solid	8021B	12318
885-11840-11	BH06@1'	Total/NA	Solid	8021B	12318
885-11840-12	BH06@4'	Total/NA	Solid	8021B	12318
885-11840-13	BH07@1'	Total/NA	Solid	8021B	12318
885-11840-14	BH07@4'	Total/NA	Solid	8021B	12318
885-11840-15	BH08@1'	Total/NA	Solid	8021B	12318
885-11840-16	BH08@4'	Total/NA	Solid	8021B	12318
885-11840-17	BH09@1'	Total/NA	Solid	8021B	12318
885-11840-18	BH09@4'	Total/NA	Solid	8021B	12318
MB 885-12318/1-A	Method Blank	Total/NA	Solid	8021B	12318
LCS 885-12318/3-A	Lab Control Sample	Total/NA	Solid	8021B	12318
885-11840-1 MSD	BH01@1'	Total/NA	Solid	8021B	12318

Analysis Batch: 12783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-1 MS	BH01@1'	Total/NA	Solid	8021B	12318

GC Semi VOA

Prep Batch: 12395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-1	BH01@1'	Total/NA	Solid	SHAKE	
885-11840-2	BH01@4'	Total/NA	Solid	SHAKE	
885-11840-3	BH02@1'	Total/NA	Solid	SHAKE	
885-11840-4	BH02@4'	Total/NA	Solid	SHAKE	
885-11840-5	BH03@1'	Total/NA	Solid	SHAKE	
885-11840-6	BH03@4'	Total/NA	Solid	SHAKE	
885-11840-7	BH04@1'	Total/NA	Solid	SHAKE	
885-11840-8	BH04@'4	Total/NA	Solid	SHAKE	
885-11840-9	BH05@1'	Total/NA	Solid	SHAKE	
885-11840-10	BH05@4'	Total/NA	Solid	SHAKE	
885-11840-11	BH06@1'	Total/NA	Solid	SHAKE	
885-11840-12	BH06@4'	Total/NA	Solid	SHAKE	
885-11840-13	BH07@1'	Total/NA	Solid	SHAKE	
885-11840-14	BH07@4'	Total/NA	Solid	SHAKE	
885-11840-15	BH08@1'	Total/NA	Solid	SHAKE	
885-11840-16	BH08@4'	Total/NA	Solid	SHAKE	
885-11840-17	BH09@1'	Total/NA	Solid	SHAKE	
885-11840-18	BH09@4'	Total/NA	Solid	SHAKE	
MB 885-12395/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-12395/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

QC Association Summary

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

GC Semi VOA

Analysis Batch: 12456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-1	BH01@1'	Total/NA	Solid	8015D	12395
885-11840-2	BH01@4'	Total/NA	Solid	8015D	12395
885-11840-3	BH02@1'	Total/NA	Solid	8015D	12395
885-11840-4	BH02@4'	Total/NA	Solid	8015D	12395
885-11840-5	BH03@1'	Total/NA	Solid	8015D	12395
885-11840-6	BH03@4'	Total/NA	Solid	8015D	12395
885-11840-7	BH04@1'	Total/NA	Solid	8015D	12395
885-11840-8	BH04@'4	Total/NA	Solid	8015D	12395
885-11840-9	BH05@1'	Total/NA	Solid	8015D	12395
885-11840-10	BH05@4'	Total/NA	Solid	8015D	12395
885-11840-11	BH06@1'	Total/NA	Solid	8015D	12395
885-11840-12	BH06@4'	Total/NA	Solid	8015D	12395
885-11840-13	BH07@1'	Total/NA	Solid	8015D	12395
885-11840-14	BH07@4'	Total/NA	Solid	8015D	12395
885-11840-15	BH08@1'	Total/NA	Solid	8015D	12395
885-11840-16	BH08@4'	Total/NA	Solid	8015D	12395
885-11840-17	BH09@1'	Total/NA	Solid	8015D	12395
885-11840-18	BH09@4'	Total/NA	Solid	8015D	12395
MB 885-12395/1-A	Method Blank	Total/NA	Solid	8015D	12395
LCS 885-12395/2-A	Lab Control Sample	Total/NA	Solid	8015D	12395

HPLC/IC

Analysis Batch: 12410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-1	BH01@1'	Total/NA	Solid	300.0	12426
885-11840-2	BH01@4'	Total/NA	Solid	300.0	12426
885-11840-3	BH02@1'	Total/NA	Solid	300.0	12426
885-11840-4	BH02@4'	Total/NA	Solid	300.0	12426
885-11840-5	BH03@1'	Total/NA	Solid	300.0	12426
885-11840-6	BH03@4'	Total/NA	Solid	300.0	12426
885-11840-7	BH04@1'	Total/NA	Solid	300.0	12426
885-11840-8	BH04@'4	Total/NA	Solid	300.0	12426
885-11840-9	BH05@1'	Total/NA	Solid	300.0	12426
885-11840-10	BH05@4'	Total/NA	Solid	300.0	12426
885-11840-11	BH06@1'	Total/NA	Solid	300.0	12426
885-11840-12	BH06@4'	Total/NA	Solid	300.0	12426
885-11840-13	BH07@1'	Total/NA	Solid	300.0	12426
885-11840-14	BH07@4'	Total/NA	Solid	300.0	12426
885-11840-15	BH08@1'	Total/NA	Solid	300.0	12426
885-11840-16	BH08@4'	Total/NA	Solid	300.0	12426
885-11840-17	BH09@1'	Total/NA	Solid	300.0	12426
MB 885-12426/1-A	Method Blank	Total/NA	Solid	300.0	12426
LCS 885-12426/2-A	Lab Control Sample	Total/NA	Solid	300.0	12426
885-11840-8 MS	BH04@'4	Total/NA	Solid	300.0	12426
885-11840-8 MSD	BH04@'4	Total/NA	Solid	300.0	12426

Prep Batch: 12426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-1	BH01@1'	Total/NA	Solid	300_Prep	
885-11840-2	BH01@4'	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

HPLC/IC (Continued)

Prep Batch: 12426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-3	BH02@1'	Total/NA	Solid	300_Prep	
885-11840-4	BH02@4'	Total/NA	Solid	300_Prep	
885-11840-5	BH03@1'	Total/NA	Solid	300_Prep	
885-11840-6	BH03@4'	Total/NA	Solid	300_Prep	
885-11840-7	BH04@1'	Total/NA	Solid	300_Prep	
885-11840-8	BH04@'4	Total/NA	Solid	300_Prep	
885-11840-9	BH05@1'	Total/NA	Solid	300_Prep	
885-11840-10	BH05@4'	Total/NA	Solid	300_Prep	
885-11840-11	BH06@1'	Total/NA	Solid	300_Prep	
885-11840-12	BH06@4'	Total/NA	Solid	300_Prep	
885-11840-13	BH07@1'	Total/NA	Solid	300_Prep	
885-11840-14	BH07@4'	Total/NA	Solid	300_Prep	
885-11840-15	BH08@1'	Total/NA	Solid	300_Prep	
885-11840-16	BH08@4'	Total/NA	Solid	300_Prep	
885-11840-17	BH09@1'	Total/NA	Solid	300_Prep	
MB 885-12426/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-12426/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-11840-8 MS	BH04@'4	Total/NA	Solid	300_Prep	
885-11840-8 MSD	BH04@'4	Total/NA	Solid	300_Prep	

Prep Batch: 12453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-18	BH09@4'	Total/NA	Solid	300_Prep	

Analysis Batch: 12612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-11840-18	BH09@4'	Total/NA	Solid	300.0	12453

Lab Chronicle

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH01@1'

Lab Sample ID: 885-11840-1

Date Collected: 09/13/24 12:20
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 17:07
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 17:07
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 15:35
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 18:49

Client Sample ID: BH01@4'

Lab Sample ID: 885-11840-2

Date Collected: 09/13/24 13:05
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 18:12
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 18:12
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 15:47
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 19:35

Client Sample ID: BH02@1'

Lab Sample ID: 885-11840-3

Date Collected: 09/13/24 13:00
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 18:34
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 18:34
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 15:58
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 19:50

Client Sample ID: BH02@4'

Lab Sample ID: 885-11840-4

Date Collected: 09/13/24 13:15
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 19:18

Lab Chronicle

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH02@4'

Lab Sample ID: 885-11840-4
Matrix: Solid
Date Collected: 09/13/24 13:15
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 19:18
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 16:09
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 20:05

Client Sample ID: BH03@1'

Lab Sample ID: 885-11840-5
Matrix: Solid
Date Collected: 09/13/24 13:20
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 19:39
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 19:39
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 16:20
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 20:20

Client Sample ID: BH03@4'

Lab Sample ID: 885-11840-6
Matrix: Solid
Date Collected: 09/13/24 13:40
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 20:01
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 20:01
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 16:30
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 20:35

Client Sample ID: BH04@1'

Lab Sample ID: 885-11840-7
Matrix: Solid
Date Collected: 09/13/24 13:20
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 20:23
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 20:23

Lab Chronicle

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH04@1'

Lab Sample ID: 885-11840-7

Date Collected: 09/13/24 13:20
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 16:41
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 20:50

Client Sample ID: BH04@'4

Lab Sample ID: 885-11840-8

Date Collected: 09/13/24 13:30
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 20:45
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 20:45
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 17:03
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 21:06

Client Sample ID: BH05@1'

Lab Sample ID: 885-11840-9

Date Collected: 09/13/24 13:45
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 21:50
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 21:50
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 17:14
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 21:51

Client Sample ID: BH05@4'

Lab Sample ID: 885-11840-10

Date Collected: 09/13/24 13:50
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 22:12
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 22:12
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 17:25

Lab Chronicle

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH05@4'

Lab Sample ID: 885-11840-10
Matrix: Solid
Date Collected: 09/13/24 13:50
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 22:37

Client Sample ID: BH06@1'

Lab Sample ID: 885-11840-11
Matrix: Solid
Date Collected: 09/13/24 14:00
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 22:33
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 22:33
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 17:35
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 22:52

Client Sample ID: BH06@4'

Lab Sample ID: 885-11840-12
Matrix: Solid
Date Collected: 09/13/24 14:10
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 22:55
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:25
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 22:55
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 17:46
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 23:07

Client Sample ID: BH07@1'

Lab Sample ID: 885-11840-13
Matrix: Solid
Date Collected: 09/13/24 14:15
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 23:17
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 23:17
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 17:57
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 23:22

Lab Chronicle

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH07@4'

Lab Sample ID: 885-11840-14

Date Collected: 09/13/24 14:20
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/18/24 23:39
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/18/24 23:39
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 18:08
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 23:37

Client Sample ID: BH08@1'

Lab Sample ID: 885-11840-15

Date Collected: 09/13/24 14:30
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/19/24 00:01
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/19/24 00:01
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 18:20
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/17/24 23:52

Client Sample ID: BH08@4'

Lab Sample ID: 885-11840-16

Date Collected: 09/13/24 14:35
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/19/24 00:22
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/19/24 00:22
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 18:31
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/18/24 00:08

Client Sample ID: BH09@1'

Lab Sample ID: 885-11840-17

Date Collected: 09/13/24 14:40
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/19/24 00:44

Lab Chronicle

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Client Sample ID: BH09@1'

Lab Sample ID: 885-11840-17

Date Collected: 09/13/24 14:40
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/19/24 00:44
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 18:42
Total/NA	Prep	300_Prep			12426	EH	EET ALB	09/17/24 16:05
Total/NA	Analysis	300.0		20	12410	EH	EET ALB	09/18/24 00:23

Client Sample ID: BH09@4'

Lab Sample ID: 885-11840-18

Date Collected: 09/13/24 14:45
Matrix: Solid
Date Received: 09/14/24 06:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8015D		1	12552	AT	EET ALB	09/19/24 01:06
Total/NA	Prep	5030C			12318	AT	EET ALB	09/16/24 13:34
Total/NA	Analysis	8021B		1	12556	AT	EET ALB	09/19/24 01:06
Total/NA	Prep	SHAKE			12395	EM	EET ALB	09/17/24 11:37
Total/NA	Analysis	8015D		1	12456	EM	EET ALB	09/18/24 19:04
Total/NA	Prep	300_Prep			12453	EH	EET ALB	09/18/24 09:25
Total/NA	Analysis	300.0		20	12612	EH	EET ALB	09/19/24 10:39

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum LLC
Project/Site: NWLU 131H

Job ID: 885-11840-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
300.0	300_Prep	Solid	Chloride
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Enduring Resources
Attn: Bill Lowman
Mailing Address:
Phone #:
email or Fax#: blowman@enduringresources.com
QA/QC Package: ☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 5 days
☒ Standard ☐ Rush
Project Name: NWLU 131H
Project #:
Project Manager: Danny Burns
Sampler: DB/AL
On Ice: ☑ Yes ☐ No 4 gels
# of Coolers: 1
Cooler Temp(including CF): 1.4+0.3 = 1.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABOR
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-11840 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(Cl) F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9-13 2024	1320 1300	soil	BH01 @ 1'	1-4oz	cool	1	X	X					X			
1305	1315		BH01 @ 4'			2										
	1300		BH02 @ 1'			3										
	1315		BH02 @ 4'			4										
	1320		BH03 @ 1'			5										
	1340		BH03 @ 4'			6										
	1320		BH04 @ 1'			7										
	1330		BH04 @ 4'			8										
	1345		BH05 @ 1'			9										
	1350		BH05 @ 4'			10										
	1400		BH06 @ 1'			11										
	1410		BH06 @ 4'			12										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9-13 2024	16:35				9/13/24	1635
9/13/24	1720			courier	9/14/24	0:25

Remarks: skahn
CC: ajameman@ensolum.com
dburns & gpalese

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Enduring

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
5 days
☒ Standard ☐ Rush

Project Name: NWLU 131H

Project #:

Project Manager: DB

Sampler: DB/AL

On Ice: ☒ Yes ☐ No yogi

# of Coolers: 1

Cooler Temp(including CF): 1.4+0.3=1.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
9-13-2024	1415	Soil	BH07@1'	1-4oz	Cool	13	X	X					X			
	1420		BH07@4'			14										
	1430		BH08@1'			15										
	1435		BH08@4'			16										
	1440		BH09@1'			17										
	1445		BH09@4'			18										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
9-13-2024	1635	DB				
9/13/24	1726				9/13/24	1633
				courier	9/14/24	0:25

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ensolum LLC Job Number: 885-11840-1

Login Number: 11840 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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.	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").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Danny Burns
Ensolum LLC
776 E 2nd Avenue
Durango, Colorado 81301

Generated 10/16/2024 1:49:14 PM

JOB DESCRIPTION

NW Lybrook 131 H

JOB NUMBER

885-13404-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated
10/16/2024 1:49:14 PM

Authorized for release by
Catherine Upton, Project Manager
Catherine.upton@et.eurofinsus.com
(505)345-3975

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Laboratory Job ID: 885-13404-1

Table of Contents

Definitions/Glossary

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

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 LLC
Project: NW Lybrook 131 H

Job ID: 885-13404-1

Job ID: 885-13404-1 Eurofins Albuquerque

Job Narrative
885-13404-1

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 10/9/2024 6:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

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

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

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

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Client Sample ID: BH10-1
Date Collected: 10/07/24 11:40
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-1
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		10/09/24 12:14	10/11/24 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*35 - 166*	*10/09/24 12:14*	*10/11/24 23:09*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/09/24 12:14	10/11/24 23:09	1
Ethylbenzene	ND		0.050		mg/Kg		10/09/24 12:14	10/11/24 23:09	1
Toluene	ND		0.050		mg/Kg		10/09/24 12:14	10/11/24 23:09	1
Xylenes, Total	ND		0.099		mg/Kg		10/09/24 12:14	10/11/24 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*10/09/24 12:14*	*10/11/24 23:09*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		8.8		mg/Kg		10/09/24 17:18	10/10/24 13:20	1
Motor Oil Range Organics [C28-C40]	ND		44		mg/Kg		10/09/24 17:18	10/10/24 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*83*		*62 - 134*	*10/09/24 17:18*	*10/10/24 13:20*	*1*

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Client Sample ID: BH10-4
Date Collected: 10/07/24 11:40
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-2
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		10/09/24 12:14	10/11/24 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*10/09/24 12:14*	*10/11/24 23:31*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/09/24 12:14	10/11/24 23:31	1
Ethylbenzene	ND		0.049		mg/Kg		10/09/24 12:14	10/11/24 23:31	1
Toluene	ND		0.049		mg/Kg		10/09/24 12:14	10/11/24 23:31	1
Xylenes, Total	ND		0.098		mg/Kg		10/09/24 12:14	10/11/24 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*48 - 145*	*10/09/24 12:14*	*10/11/24 23:31*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		10/09/24 17:18	10/10/24 13:31	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/09/24 17:18	10/10/24 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*84*		*62 - 134*	*10/09/24 17:18*	*10/10/24 13:31*	*1*

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Client Sample ID: BH11-1
Date Collected: 10/07/24 12:00
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-3
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		10/10/24 12:12	10/12/24 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*35 - 166*	*10/10/24 12:12*	*10/12/24 01:19*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/10/24 12:12	10/12/24 01:19	1
Ethylbenzene	ND		0.049		mg/Kg		10/10/24 12:12	10/12/24 01:19	1
Toluene	ND		0.049		mg/Kg		10/10/24 12:12	10/12/24 01:19	1
Xylenes, Total	ND		0.097		mg/Kg		10/10/24 12:12	10/12/24 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*10/10/24 12:12*	*10/12/24 01:19*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		10/10/24 16:13	10/14/24 15:18	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		10/10/24 16:13	10/14/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*10/10/24 16:13*	*10/14/24 15:18*	*1*

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Client Sample ID: BH11-4
Date Collected: 10/07/24 12:00
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-4
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		10/10/24 12:12	10/12/24 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*35 - 166*	*10/10/24 12:12*	*10/12/24 02:24*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/10/24 12:12	10/12/24 02:24	1
Ethylbenzene	ND		0.048		mg/Kg		10/10/24 12:12	10/12/24 02:24	1
Toluene	ND		0.048		mg/Kg		10/10/24 12:12	10/12/24 02:24	1
Xylenes, Total	ND		0.096		mg/Kg		10/10/24 12:12	10/12/24 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/10/24 12:12*	*10/12/24 02:24*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**9.9**		9.6		mg/Kg		10/10/24 16:13	10/14/24 15:30	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		10/10/24 16:13	10/14/24 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*10/10/24 16:13*	*10/14/24 15:30*	*1*

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Client Sample ID: BH12-1
Date Collected: 10/07/24 12:30
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-5
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		10/10/24 12:12	10/12/24 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*35 - 166*	*10/10/24 12:12*	*10/12/24 03:29*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		10/10/24 12:12	10/12/24 03:29	1
Ethylbenzene	ND		0.048		mg/Kg		10/10/24 12:12	10/12/24 03:29	1
Toluene	ND		0.048		mg/Kg		10/10/24 12:12	10/12/24 03:29	1
Xylenes, Total	ND		0.096		mg/Kg		10/10/24 12:12	10/12/24 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*	*10/10/24 12:12*	*10/12/24 03:29*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**200**		9.7		mg/Kg		10/10/24 16:13	10/14/24 15:42	1
Motor Oil Range Organics [C28-C40]	**160**		48		mg/Kg		10/10/24 16:13	10/14/24 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*10/10/24 16:13*	*10/14/24 15:42*	*1*

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Client Sample ID: BH12-4
Date Collected: 10/07/24 12:30
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-6
Matrix: Solid

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		10/10/24 12:12	10/12/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*35 - 166*	*10/10/24 12:12*	*10/12/24 03:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/10/24 12:12	10/12/24 03:51	1
Ethylbenzene	ND		0.049		mg/Kg		10/10/24 12:12	10/12/24 03:51	1
Toluene	ND		0.049		mg/Kg		10/10/24 12:12	10/12/24 03:51	1
Xylenes, Total	ND		0.098		mg/Kg		10/10/24 12:12	10/12/24 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*	*10/10/24 12:12*	*10/12/24 03:51*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**34**		9.3		mg/Kg		10/10/24 16:13	10/14/24 15:55	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		10/10/24 16:13	10/14/24 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*10/10/24 16:13*	*10/14/24 15:55*	*1*

QC Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-13974/1-A
Matrix: Solid
Analysis Batch: 14199

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13974

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		10/09/24 12:14	10/11/24 14:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*35 - 166*	*10/09/24 12:14*	*10/11/24 14:07*	*1*

Lab Sample ID: LCS 885-13974/2-A
Matrix: Solid
Analysis Batch: 14199

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13974

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	27.1		mg/Kg		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*222*		*35 - 166*

Lab Sample ID: MB 885-14070/1-A
Matrix: Solid
Analysis Batch: 14200

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14070

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		10/10/24 12:12	10/12/24 00:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*35 - 166*	*10/10/24 12:12*	*10/12/24 00:57*	*1*

Lab Sample ID: LCS 885-14070/2-A
Matrix: Solid
Analysis Batch: 14200

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14070

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	28.5		mg/Kg		114	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*214*		*35 - 166*

Lab Sample ID: 885-13404-3 MS
Matrix: Solid
Analysis Batch: 14200

Client Sample ID: BH11-1
Prep Type: Total/NA
Prep Batch: 14070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		24.1	28.8		mg/Kg		120	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*225*		*35 - 166*

QC Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-13404-3 MSD
Matrix: Solid
Analysis Batch: 14200

Client Sample ID: BH11-1
Prep Type: Total/NA
Prep Batch: 14070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.2	26.9		mg/Kg		111	70 - 130	7	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*228*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-13974/1-A
Matrix: Solid
Analysis Batch: 14201

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13974

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/09/24 12:14	10/11/24 14:07	1
Ethylbenzene	ND		0.050		mg/Kg		10/09/24 12:14	10/11/24 14:07	1
Toluene	ND		0.050		mg/Kg		10/09/24 12:14	10/11/24 14:07	1
Xylenes, Total	ND		0.10		mg/Kg		10/09/24 12:14	10/11/24 14:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*48 - 145*	*10/09/24 12:14*	*10/11/24 14:07*	*1*

Lab Sample ID: LCS 885-13974/3-A
Matrix: Solid
Analysis Batch: 14201

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13974

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.970		mg/Kg		97	70 - 130		
Ethylbenzene			1.00	0.966		mg/Kg		97	70 - 130		
m,p-Xylene			2.00	1.90		mg/Kg		95	70 - 130		
o-Xylene			1.00	0.944		mg/Kg		94	70 - 130		
Toluene			1.00	0.956		mg/Kg		96	70 - 130		
Xylenes, Total			3.00	2.85		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*48 - 145*

Lab Sample ID: MB 885-14070/1-A
Matrix: Solid
Analysis Batch: 14202

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14070

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		10/10/24 12:12	10/12/24 00:57	1
Ethylbenzene	ND		0.050		mg/Kg		10/10/24 12:12	10/12/24 00:57	1
Toluene	ND		0.050		mg/Kg		10/10/24 12:12	10/12/24 00:57	1
Xylenes, Total	ND		0.10		mg/Kg		10/10/24 12:12	10/12/24 00:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*	*10/10/24 12:12*	*10/12/24 00:57*	*1*

QC Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: LCS 885-14070/3-A
Matrix: Solid
Analysis Batch: 14202

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14070

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	1.06		mg/Kg		106	70 - 130		
Ethylbenzene			1.00	1.05		mg/Kg		105	70 - 130		
m,p-Xylene			2.00	2.08		mg/Kg		104	70 - 130		
o-Xylene			1.00	1.04		mg/Kg		104	70 - 130		
Toluene			1.00	1.07		mg/Kg		107	70 - 130		
Xylenes, Total			3.00	3.12		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*

Lab Sample ID: 885-13404-4 MS
Matrix: Solid
Analysis Batch: 14202

Client Sample ID: BH11-4
Prep Type: Total/NA
Prep Batch: 14070

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.955	1.06		mg/Kg		111	70 - 130		
Ethylbenzene	ND		0.955	1.07		mg/Kg		112	70 - 130		
m,p-Xylene	ND		1.91	2.12		mg/Kg		111	70 - 130		
o-Xylene	ND		0.955	1.06		mg/Kg		111	70 - 130		
Toluene	ND		0.955	1.08		mg/Kg		113	70 - 130		
Xylenes, Total	ND		2.87	3.17		mg/Kg		111	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*48 - 145*

Lab Sample ID: 885-13404-4 MSD
Matrix: Solid
Analysis Batch: 14202

Client Sample ID: BH11-4
Prep Type: Total/NA
Prep Batch: 14070

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		0.961	1.07		mg/Kg		111	70 - 130	0	20
Ethylbenzene	ND		0.961	1.08		mg/Kg		112	70 - 130	1	20
m,p-Xylene	ND		1.92	2.14		mg/Kg		111	70 - 130	1	20
o-Xylene	ND		0.961	1.06		mg/Kg		111	70 - 130	1	20
Toluene	ND		0.961	1.07		mg/Kg		111	70 - 130	1	20
Xylenes, Total	ND		2.88	3.20		mg/Kg		111	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*48 - 145*

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-14026/1-A
Matrix: Solid
Analysis Batch: 14051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14026

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/09/24 17:18	10/10/24 12:16	1

QC Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

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

Lab Sample ID: MB 885-14026/1-A
Matrix: Solid
Analysis Batch: 14051

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14026

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/09/24 17:18	10/10/24 12:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*87*		*62 - 134*	*10/09/24 17:18*	*10/10/24 12:16*	*1*

Lab Sample ID: LCS 885-14026/2-A
Matrix: Solid
Analysis Batch: 14051

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14026

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	42.1		mg/Kg		84	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*86*		*62 - 134*

Lab Sample ID: MB 885-14090/1-A
Matrix: Solid
Analysis Batch: 14214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14090

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		10/10/24 16:13	10/14/24 14:54	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		10/10/24 16:13	10/14/24 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*10/10/24 16:13*	*10/14/24 14:54*	*1*

Lab Sample ID: LCS 885-14090/2-A
Matrix: Solid
Analysis Batch: 14214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14090

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	36.3		mg/Kg		73	60 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*

QC Association Summary

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

GC VOA

Prep Batch: 13974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-1	BH10-1	Total/NA	Solid	5030C	
885-13404-2	BH10-4	Total/NA	Solid	5030C	
MB 885-13974/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-13974/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-13974/3-A	Lab Control Sample	Total/NA	Solid	5030C	

Prep Batch: 14070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-3	BH11-1	Total/NA	Solid	5030C	
885-13404-4	BH11-4	Total/NA	Solid	5030C	
885-13404-5	BH12-1	Total/NA	Solid	5030C	
885-13404-6	BH12-4	Total/NA	Solid	5030C	
MB 885-14070/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-14070/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-14070/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-13404-3 MS	BH11-1	Total/NA	Solid	5030C	
885-13404-3 MSD	BH11-1	Total/NA	Solid	5030C	
885-13404-4 MS	BH11-4	Total/NA	Solid	5030C	
885-13404-4 MSD	BH11-4	Total/NA	Solid	5030C	

Analysis Batch: 14199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-1	BH10-1	Total/NA	Solid	8015D	13974
885-13404-2	BH10-4	Total/NA	Solid	8015D	13974
MB 885-13974/1-A	Method Blank	Total/NA	Solid	8015D	13974
LCS 885-13974/2-A	Lab Control Sample	Total/NA	Solid	8015D	13974

Analysis Batch: 14200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-3	BH11-1	Total/NA	Solid	8015D	14070
885-13404-4	BH11-4	Total/NA	Solid	8015D	14070
885-13404-5	BH12-1	Total/NA	Solid	8015D	14070
885-13404-6	BH12-4	Total/NA	Solid	8015D	14070
MB 885-14070/1-A	Method Blank	Total/NA	Solid	8015D	14070
LCS 885-14070/2-A	Lab Control Sample	Total/NA	Solid	8015D	14070
885-13404-3 MS	BH11-1	Total/NA	Solid	8015D	14070
885-13404-3 MSD	BH11-1	Total/NA	Solid	8015D	14070

Analysis Batch: 14201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-1	BH10-1	Total/NA	Solid	8021B	13974
885-13404-2	BH10-4	Total/NA	Solid	8021B	13974
MB 885-13974/1-A	Method Blank	Total/NA	Solid	8021B	13974
LCS 885-13974/3-A	Lab Control Sample	Total/NA	Solid	8021B	13974

Analysis Batch: 14202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-3	BH11-1	Total/NA	Solid	8021B	14070
885-13404-4	BH11-4	Total/NA	Solid	8021B	14070
885-13404-5	BH12-1	Total/NA	Solid	8021B	14070
885-13404-6	BH12-4	Total/NA	Solid	8021B	14070

QC Association Summary

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

GC VOA (Continued)

Analysis Batch: 14202 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-14070/1-A	Method Blank	Total/NA	Solid	8021B	14070
LCS 885-14070/3-A	Lab Control Sample	Total/NA	Solid	8021B	14070
885-13404-4 MS	BH11-4	Total/NA	Solid	8021B	14070
885-13404-4 MSD	BH11-4	Total/NA	Solid	8021B	14070

GC Semi VOA

Prep Batch: 14026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-1	BH10-1	Total/NA	Solid	SHAKE	
885-13404-2	BH10-4	Total/NA	Solid	SHAKE	
MB 885-14026/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-14026/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 14051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-1	BH10-1	Total/NA	Solid	8015D	14026
885-13404-2	BH10-4	Total/NA	Solid	8015D	14026
MB 885-14026/1-A	Method Blank	Total/NA	Solid	8015D	14026
LCS 885-14026/2-A	Lab Control Sample	Total/NA	Solid	8015D	14026

Prep Batch: 14090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-3	BH11-1	Total/NA	Solid	SHAKE	
885-13404-4	BH11-4	Total/NA	Solid	SHAKE	
885-13404-5	BH12-1	Total/NA	Solid	SHAKE	
885-13404-6	BH12-4	Total/NA	Solid	SHAKE	
MB 885-14090/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-14090/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 14214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-3	BH11-1	Total/NA	Solid	8015D	14090
885-13404-4	BH11-4	Total/NA	Solid	8015D	14090
885-13404-5	BH12-1	Total/NA	Solid	8015D	14090
885-13404-6	BH12-4	Total/NA	Solid	8015D	14090
MB 885-14090/1-A	Method Blank	Total/NA	Solid	8015D	14090
LCS 885-14090/2-A	Lab Control Sample	Total/NA	Solid	8015D	14090

Lab Chronicle

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Client Sample ID: BH10-1
Date Collected: 10/07/24 11:40
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13974	AT	EET ALB	10/09/24 12:14
Total/NA	Analysis	8015D		1	14199	AT	EET ALB	10/11/24 23:09
Total/NA	Prep	5030C			13974	AT	EET ALB	10/09/24 12:14
Total/NA	Analysis	8021B		1	14201	AT	EET ALB	10/11/24 23:09
Total/NA	Prep	SHAKE			14026	KR	EET ALB	10/09/24 17:18
Total/NA	Analysis	8015D		1	14051	KR	EET ALB	10/10/24 13:20

Client Sample ID: BH10-4
Date Collected: 10/07/24 11:40
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			13974	AT	EET ALB	10/09/24 12:14
Total/NA	Analysis	8015D		1	14199	AT	EET ALB	10/11/24 23:31
Total/NA	Prep	5030C			13974	AT	EET ALB	10/09/24 12:14
Total/NA	Analysis	8021B		1	14201	AT	EET ALB	10/11/24 23:31
Total/NA	Prep	SHAKE			14026	KR	EET ALB	10/09/24 17:18
Total/NA	Analysis	8015D		1	14051	KR	EET ALB	10/10/24 13:31

Client Sample ID: BH11-1
Date Collected: 10/07/24 12:00
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14070	JP	EET ALB	10/10/24 12:12
Total/NA	Analysis	8015D		1	14200	AT	EET ALB	10/12/24 01:19
Total/NA	Prep	5030C			14070	JP	EET ALB	10/10/24 12:12
Total/NA	Analysis	8021B		1	14202	AT	EET ALB	10/12/24 01:19
Total/NA	Prep	SHAKE			14090	EM	EET ALB	10/10/24 16:13
Total/NA	Analysis	8015D		1	14214	EM	EET ALB	10/14/24 15:18

Client Sample ID: BH11-4
Date Collected: 10/07/24 12:00
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14070	JP	EET ALB	10/10/24 12:12
Total/NA	Analysis	8015D		1	14200	AT	EET ALB	10/12/24 02:24
Total/NA	Prep	5030C			14070	JP	EET ALB	10/10/24 12:12
Total/NA	Analysis	8021B		1	14202	AT	EET ALB	10/12/24 02:24
Total/NA	Prep	SHAKE			14090	EM	EET ALB	10/10/24 16:13
Total/NA	Analysis	8015D		1	14214	EM	EET ALB	10/14/24 15:30

Lab Chronicle

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Client Sample ID: BH12-1
Date Collected: 10/07/24 12:30
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14070	JP	EET ALB	10/10/24 12:12
Total/NA	Analysis	8015D		1	14200	AT	EET ALB	10/12/24 03:29
Total/NA	Prep	5030C			14070	JP	EET ALB	10/10/24 12:12
Total/NA	Analysis	8021B		1	14202	AT	EET ALB	10/12/24 03:29
Total/NA	Prep	SHAKE			14090	EM	EET ALB	10/10/24 16:13
Total/NA	Analysis	8015D		1	14214	EM	EET ALB	10/14/24 15:42

Client Sample ID: BH12-4
Date Collected: 10/07/24 12:30
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			14070	JP	EET ALB	10/10/24 12:12
Total/NA	Analysis	8015D		1	14200	AT	EET ALB	10/12/24 03:51
Total/NA	Prep	5030C			14070	JP	EET ALB	10/10/24 12:12
Total/NA	Analysis	8021B		1	14202	AT	EET ALB	10/12/24 03:51
Total/NA	Prep	SHAKE			14090	EM	EET ALB	10/10/24 16:13
Total/NA	Analysis	8015D		1	14214	EM	EET ALB	10/14/24 15:55

Laboratory References:
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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
8015D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-26-25

Chain-of-Custody Record

Client: Enduring Resources

Mailing Address:

Phone #:

email or Fax#: blowman@enduringresources.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: NW Lybrook 131H

Project #:

Project Manager: D. Burns

Sampler: A. Lawrence

On Ice: ☒ Yes ☐ No Yogi

# of Coolers: 1

Cooler Temp(including CF): 3.3+0.1=3.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-13404 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/7/24	1140	Soil	BH10-1			1	X	X					X			
10/7/24	1140	Soil	BH10-4			2										
10/7/24	1200	Soil	DH11-1			3										
10/7/24	1200	Soil	BH11-4			4										
10/7/24	1230	Soil	BH12-1			5										
10/7/24	1230	Soil	BH12-4			6										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/7/24	1345				10/7/24	1345
10/8/24	1818			courier	10/9/24	9:40

Remarks: alawrence
CC: dburns@ensolum.com
steahn
cager

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Enduring Resources

Mailing Address:

Phone #:

email or Fax#: blowman@enduringresources.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: NW Lybrook 131H

Project #:

Project Manager: D. Burns

Sampler: A. Lawrence

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.3+0.1=3.4 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-3404 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/7/24	1140	Soil	BH10-1			1	X	X					X			
10/7/24	1140	Soil	BH10-4			2										
10/7/24	1200	Soil	DH11-1			3										
10/7/24	1200	Soil	BH11-4			4										
10/7/24	1230	Soil	BH12-1			5										
10/7/24	1230	Soil	BH12-4			6										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/7/24	1345				10/7/24	1345
10/8/24	1818			Courier	10/9/24	9:40

Remarks: alawrence
CC: dburns @ensolum.com
skeahn
cager

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ensolum LLC Job Number: 885-13404-1

Login Number: 13404 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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.	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").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Danny Burns
Ensolum LLC
776 E 2nd Avenue
Durango, Colorado 81301

Generated 10/21/2024 4:23:55 PM

JOB DESCRIPTION

NW Lybrook 131 H

JOB NUMBER

885-13404-2

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

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Authorized for release by
Catherine Upton, Project Manager
Catherine.upton@et.eurofinsus.com
(505)345-3975

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Laboratory Job ID: 885-13404-2

Table of Contents

Definitions/Glossary

Client: Ensolum LLC Job ID: 885-13404-2
Project/Site: NW Lybrook 131 H

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 LLC
Project: NW Lybrook 131 H

Job ID: 885-13404-2

Job ID: 885-13404-2 Eurofins Albuquerque

Job Narrative
885-13404-2

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 10/9/2024 6:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

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 LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-2

Client Sample ID: BH10-1
Date Collected: 10/07/24 11:40
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-1
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		10/17/24 16:08	10/18/24 00:25	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-2

Client Sample ID: BH10-4
Date Collected: 10/07/24 11:40
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-2
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		10/17/24 16:08	10/18/24 00:56	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-2

Client Sample ID: BH11-1
Date Collected: 10/07/24 12:00
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-3
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		10/17/24 16:08	10/18/24 01:06	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-2

Client Sample ID: BH11-4
Date Collected: 10/07/24 12:00
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		10/17/24 16:08	10/18/24 01:17	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-2

Client Sample ID: BH12-1
Date Collected: 10/07/24 12:30
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-5
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		60		mg/Kg		10/17/24 16:08	10/18/24 01:48	20

Client Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-2

Client Sample ID: BH12-4
Date Collected: 10/07/24 12:30
Date Received: 10/09/24 06:40

Lab Sample ID: 885-13404-6
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		10/17/24 16:08	10/18/24 01:58	20

QC Sample Results

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-2

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 885-14482/3
Matrix: Solid
Analysis Batch: 14482

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

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			0.500	0.515		mg/L		103	50 - 150		

Lab Sample ID: MB 885-14503/1-A
Matrix: Solid
Analysis Batch: 14482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 14503

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		10/17/24 16:08	10/18/24 00:04	1

Lab Sample ID: LCS 885-14503/2-A
Matrix: Solid
Analysis Batch: 14482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 14503

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	27.5		mg/Kg		92	90 - 110		

Lab Sample ID: 885-13404-1 MS
Matrix: Solid
Analysis Batch: 14482

Client Sample ID: BH10-1
Prep Type: Total/NA
Prep Batch: 14503

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		29.9	ND		mg/Kg		NC	50 - 150		

Lab Sample ID: 885-13404-A-1-E MSD
Matrix: Solid
Analysis Batch: 14482

Client Sample ID: 885-13404-A-1-E MSD
Prep Type: Total/NA
Prep Batch: 14503

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		29.8	ND		mg/Kg					

QC Association Summary

Client: Ensolum LLC
Project/Site: NW Lybrook 131 H

Job ID: 885-13404-2

HPLC/IC

Analysis Batch: 14482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-1	BH10-1	Total/NA	Solid	300.0	14503
885-13404-2	BH10-4	Total/NA	Solid	300.0	14503
885-13404-3	BH11-1	Total/NA	Solid	300.0	14503
885-13404-4	BH11-4	Total/NA	Solid	300.0	14503
885-13404-5	BH12-1	Total/NA	Solid	300.0	14503
885-13404-6	BH12-4	Total/NA	Solid	300.0	14503
MB 885-14503/1-A	Method Blank	Total/NA	Solid	300.0	14503
LCS 885-14503/2-A	Lab Control Sample	Total/NA	Solid	300.0	14503
MRL 885-14482/3	Lab Control Sample	Total/NA	Solid	300.0	
885-13404-1 MS	BH10-1	Total/NA	Solid	300.0	14503
885-13404-A-1-E MSD	885-13404-A-1-E MSD	Total/NA	Solid	300.0	14503

Prep Batch: 14503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-13404-1	BH10-1	Total/NA	Solid	300_Prep	
885-13404-2	BH10-4	Total/NA	Solid	300_Prep	
885-13404-3	BH11-1	Total/NA	Solid	300_Prep	
885-13404-4	BH11-4	Total/NA	Solid	300_Prep	
885-13404-5	BH12-1	Total/NA	Solid	300_Prep	
885-13404-6	BH12-4	Total/NA	Solid	300_Prep	
MB 885-14503/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-14503/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-13404-1 MS	BH10-1	Total/NA	Solid	300_Prep	
885-13404-A-1-E MSD	885-13404-A-1-E MSD	Total/NA	Solid	300_Prep	

Lab Chronicle

Client: Ensolum LLC
Job ID: 885-13404-2
Project/Site: NW Lybrook 131 H

Client Sample ID: BH10-1
Lab Sample ID: 885-13404-1
Date Collected: 10/07/24 11:40
Matrix: Solid
Date Received: 10/09/24 06:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			14503	EH	EET ALB	10/17/24 16:08
Total/NA	Analysis	300.0		20	14482	EH	EET ALB	10/18/24 00:25

Client Sample ID: BH10-4
Lab Sample ID: 885-13404-2
Date Collected: 10/07/24 11:40
Matrix: Solid
Date Received: 10/09/24 06:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			14503	EH	EET ALB	10/17/24 16:08
Total/NA	Analysis	300.0		20	14482	EH	EET ALB	10/18/24 00:56

Client Sample ID: BH11-1
Lab Sample ID: 885-13404-3
Date Collected: 10/07/24 12:00
Matrix: Solid
Date Received: 10/09/24 06:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			14503	EH	EET ALB	10/17/24 16:08
Total/NA	Analysis	300.0		20	14482	EH	EET ALB	10/18/24 01:06

Client Sample ID: BH11-4
Lab Sample ID: 885-13404-4
Date Collected: 10/07/24 12:00
Matrix: Solid
Date Received: 10/09/24 06:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			14503	EH	EET ALB	10/17/24 16:08
Total/NA	Analysis	300.0		20	14482	EH	EET ALB	10/18/24 01:17

Client Sample ID: BH12-1
Lab Sample ID: 885-13404-5
Date Collected: 10/07/24 12:30
Matrix: Solid
Date Received: 10/09/24 06:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			14503	EH	EET ALB	10/17/24 16:08
Total/NA	Analysis	300.0		20	14482	EH	EET ALB	10/18/24 01:48

Client Sample ID: BH12-4
Lab Sample ID: 885-13404-6
Date Collected: 10/07/24 12:30
Matrix: Solid
Date Received: 10/09/24 06:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			14503	EH	EET ALB	10/17/24 16:08
Total/NA	Analysis	300.0		20	14482	EH	EET ALB	10/18/24 01:58

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Ensolum LLC
Job ID: 885-13404-2
Project/Site: NW Lybrook 131 H

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

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		
300.0	300_Prep	Solid	Chloride		
Oregon		NELAP		NM100001	02-26-25

Chain-of-Custody Record

Client: Enduring Resources

Mailing Address:

Phone #:

email or Fax#: blowman@enduringresources.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: NW Lybrook 131H

Project #:

Project Manager: D. Burns

Sampler: A. Lawrence

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 33+0.1=34 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-3404 COC

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
10/7/24	1140	Soil	BH10-1			1	X	X					X			
10/7/24	1140	Soil	BH10-4			2										
10/7/24	1200	Soil	DH11-1			3										
10/7/24	1200	Soil	BH11-4			4										
10/7/24	1230	Soil	BH12-1			5										
10/7/24	1230	Soil	BH12-4			6										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/7/24	1345				10/7/24	1345
10/8/24	1818			Courier	10/9/24	9:40

Remarks: alawrence
CC: dburns@ensolum.com
skeahn
cager

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Ensolum LLC Job Number: 885-13404-2

Login Number: 13404 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

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.	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").	True	
TCEQ Mtd 1005 soil sample was frozen/delivered for prep within 48H of sampling.	N/A	

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Phone: (505) 476-3441

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

QUESTIONS

Action 405195

QUESTIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 405195
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2424159147**
Incident Name	**NAPP2424159147 NW LYBROOK UNIT 131H @ 30-045-35507**
Incident Type	**Produced Water Release**
Incident Status	**Deferral Request Received**
Incident Well	**[30-045-35507] NW LYBROOK UNIT #131H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NW LYBROOK UNIT 131H
Date Release Discovered	08/25/2024
Surface Owner	Federal

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: Equipment Failure | Tank (Any) | Produced Water | Released: 132 BBL | Recovered: 132 BBL | Lost: 0 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)	RELEASE WAS IN LINED CONTAINMENT

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QUESTIONS (continued)

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 405195
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Heather Huntington Title: Permitting Tech Email: hhuntington@enduringresources.com Date: 09/06/2024

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QUESTIONS (continued)

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 405195
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
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	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
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	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission		Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	860
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	360
GRO+DRO	(EPA SW-846 Method 8015M)	204
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1
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		08/25/2024
On what date will (or did) the final sampling or liner inspection occur		11/04/2024
On what date will (or was) the remediation complete(d)		08/25/2024
What is the estimated surface area (in square feet) that will be reclaimed		0
What is the estimated volume (in cubic yards) that will be reclaimed		0
What is the estimated surface area (in square feet) that will be remediated		400
What is the estimated volume (in cubic yards) that will be remediated		0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

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QUESTIONS (continued)

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 405195
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	ENVIROTECH [fSC00000000048]
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.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Heather Huntington Title: Permitting Tech Email: hhuntington@enduringresources.com Date: 11/22/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 405195
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Multiple production tanks and flowlines. Enduring safety policy restricts soil disturbing activities within a 2- foot radius of any on-site, active production equipment.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	12.6
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	5
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	*Not answered.*
Enter the well API (30-) on which this deferral should be granted	30-045-35507 NW LYBROOK UNIT #131H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Heather Huntington Title: Permitting Tech Email: hhuntington@enduringresources.com Date: 11/22/2024

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QUESTIONS (continued)

Operator:	OGRID:
ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	372286
	Action Number: 405195
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	*{Unavailable.}*

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 405195

CONDITIONS

Operator: ENDURING RESOURCES, LLC 6300 S Syracuse Way Centennial, CO 80111	OGRID: 372286
	Action Number: 405195
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Enduring's deferral requests final remediation for (Incident Number NAPP2424159147) until final reclamation of the well pad or major construction, whichever comes first. Ensolum and Enduring do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The areas requested for deferral are the impacted soil, which include BH3 and BH12 located under the lined containment, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	12/23/2024