ENSOLUM

February 11, 2025

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request Addendum PLU 21 Brushy Draw 125H Incident Number NAPP2229145683 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request Addendum* to present additional remediation activities completed at the PLU 21 Brushy Draw 125H (Site), in response to the denial of the original *Closure Request*, submitted to the New Mexico Oil Conservation Division (NMOCD) on March 31, 2023. In the denial, NMOCD indicated that the release was not laterally defined. Based on soil sampling activities described below, XTO is submitting this *Closure Request Addendum* and requesting no further action for Incident Number NAPP2229145683.

BACKGROUND

The Site is located in Unit O, Section 21, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.109254°, -103.883924°) and is associated with oil and gas exploration and production operations on private land owned by Ms. Janey Paschal.

On October 4, 2022, a seal failed on the sand knockout, resulting in the release of 1.12 barrels (bbls) of crude oil and 4.47 bbls of produced water onto the pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 1.00 bbl of crude oil and 4.00 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil and Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on October 18, 2022. The release was assigned Incident Number NAPP2229145683.

The *Closure Request* detailed the Site characterization completed to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented in the original *Closure Request*, submitted March 31, 2023. Potential Site receptors are identified on Figure 1. Based on the results of the Site characterization, the following Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com XTO Energy, Inc Closure Request Addendum PLU 21 Brushy Draw 125

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

Between November 17, 2022, and February 15, 2023, Ensolum conducted Site assessment, delineation, and excavation activities in response to the release. XTO submitted a *Closure Request* on March 31, 2023, requesting no further action (NFA) following delineation of the release and excavation of all soil exceeding the Closure Criteria. Delineation soil samples were collected within and around the release as shown on Figure 2. Excavation soil samples were collected from the excavation as shown on Figure 3. All previously completed remedial activities can be found in the original *Closure Request* included in Appendix A. On August 17, 2023, NMOCD denied the Closure Request for Incident Number NAPP2334152485 for the following reasons:

The Closure Report is Denied. The "step-out" samples on pad to verify the edge of the release should only be a maximum of 1-2 feet from the observed edge of the release. Stepping out away from the release area to conduct horizontal delineation samples may tell us whether or not the release left the active well pad, but it does not tell us where the actual edge of the release is located. Please make sure that the edge of the release extent is accurately defined. Additionally, when equipment is located in and around the release area, samples must come from the sidewalls of the release area excavation. The OCD needs to know if the release went in, around, or under equipment/tanks/pipelines. Not having sidewall samples from the actual excavation won't give us those sampling data points that we need. "Step-out" samples should never be conducted if equipment is in the vicinity of the release area.

CONFIRMATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On March 4, 2024, Ensolum personnel returned to the Site to collect additional confirmation soil samples. Composite soil sample SW01 was collected from the sidewalls of the previous excavation at depths ranging from the ground surface to 1-foot bgs. Soil samples SS07 through SS10 were collected at a depth of 0.5 feet bgs around the release to laterally define the release extent.

The confirmation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. All confirmation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- GRO, TPH- DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500. Photographic documentation of the confirmation soil sampling activities is included in Appendix B. The release extent, excavation extent, and additional soil sample locations are presented on Figure 4.

Laboratory analytical results for all confirmation soil samples collected indicated all COC concentrations were in compliance with the Closure Criteria and confirmed the lateral extent of the release. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix C.

As previously reported, the excavation area measured approximately 775 square feet. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. A



XTO Energy, Inc Closure Request Addendum PLU 21 Brushy Draw 125

total of 29 cubic yards of impacted soil were removed from the Site. The excavation has been backfilled with material purchased locally and the Site has been recontoured to match pre-existing site conditions. The release remained on the active well pad. As such, the release area is not expected to be reclaimed until the well pad is reclaimed.

CLOSURE REQUEST

Soil sampling activities were conducted at the Site to address the October 4, 2022, crude oil and produced water release. Laboratory analytical results from all samples collected from the final excavation extent and release area, indicated that all COC concentrations were in compliance with the Closure Criteria. Based on laboratory analytical results, impacted soil exceeding the Site Closure Criteria has been excavated and no further remediation is required at this time. However, soil on the well pad exceeding the reclamation requirements of NMAC 19.15.29.13.D (1) will be removed during the final reclamation of the well pad. The excavation was backfilled with material purchased locally and the surface recontoured to match pre-existing Site conditions.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2229145683.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, Ensolum, LLC

Vadie Dreen

Hadlie Green Project Geologist

cc: Kaylan Dirkx, XTO Colton Brown, XTO Ms. Janey Paschal

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Figure 4 Confirmation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Appendix A March 31, 2023 Closure Request
- Appendix B Photographic Log
- Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation



nouissey

Tacoma Morrissey Associate Principal



FIGURES

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TABLES

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ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 21 Brushy Draw 125H XTO Energy, Inc Eddy County, New Mexico									
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Deli	neation Soil Sa	mples				
SS01	11/17/2022	0.5	<0.00199	<0.00398	<249	13,500	1,950	13,500	15,500	4,170
BH02	02/15/2023	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	307
BH01	12/29/2022	4	<0.0398	<0.0797	<50.0	429	144	429	573	6,460
BH01A	12/29/2022	3	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	477
SS02	11/17/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	79.3
SS03	11/17/2022	0.5	<0.00200	<0.00401	<50.0	64.8	<50.0	64.8	64.8	126
SS03	12/15/2023	0.5	<0.00199	<0.00398	<50.5	81.7	<50.5	81.7	81.7	236
SS04	11/17/2022	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	202
SS05	11/17/2022	0.5	<0.00199	<0.00398	<49.9	60.3	<49.9	60.3	60.3	458
SS06	12/15/2023	0.5	<0.00199	<0.00398	<50.5	81.7	<50.5	81.7	81.7	236
SS07	03/04/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SS08	03/04/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SS09	03/04/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS10	03/04/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
				Exc	avation Soil Sa	mples				
ES01	12/29/2022	0.5	<0.0401	<0.0802	<50.0	1,820	281	1,820	2,100	8,400
FS01	02/15/2023	1	<0.00200	<0.00400	<49.9	168	<49.9	168	168	2,650
FS02	12/29/2022	0.5	<0.0399	0.112	<49.9	1,970	305	1,970	2,280	5,610
FS02	02/15/2023	1	< 0.00202	< 0.00404	<50.0	138	<50.0	138	138	2,940
FS03	12/30/2022	0.5	< 0.00201	< 0.00402	<49.8	246	<49.8	246	246	2,760
FS04 FS04	12/30/2022 02/15/2023	0.5 1	<0.0401 <0.0020	<0.0802 <0.00403	106 <49.9	2,850 115	<50.0 <49.9	2,960 115	2,960 115	5,340 1,590
SW01	03/04/2024	0 - 1	<0.0020	<0.00403	<49.9	<10.0	<10.0	<10.0	<10.0	80.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria

Grey text indicates soil sample removed during excavation activities

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Closure Request Report; Dated March 31, 2023

Released to Imaging: 2/18/2025 11:05:31 AM

E NSOLUM

March 31, 2023

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request PLU 21 Brushy Draw 125H Incident Number NAPP2229145683 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the PLU 21 Brushy Draw 125H (Site). The purpose of the the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil and produced water at the Site. Based on observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number NAPP2229145683.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 21, Township 25 South, Range 30 East, in Eddy County, New Mexico (32.109254°, -103.883924°) and is associated with oil and gas exploration and production operations on private land owned by Ms. Janey Paschal.

On October 4, 2022, a seal failed on the sand knockout, resulting in the release of 1.12 barrels (bbls) of crude oil and 4.47 bbls of produced water onto the pad surface. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 1.00 bbl of crude oil and 4.00 bbls of produced water were recovered. XTO reported the release to the New Mexico Oil and Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on October 18, 2022. The release was assigned Incident Number NAPP2229145683.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to water is United States Geological Survey (USGS) well 320628103533001, located 0.48 miles west of the Site. The groundwater well has a reported depth to groundwater of 264 feet bgs and a total depth of 288 feet bgs. Ground surface elevation at the groundwater well location is 3,207 feet above mean sea level

XTO Energy, Inc Closure Request PLU 21 Brushy Draw 125H

(amsl), which is approximately 44 feet lower in elevation than the Site. All wells used to determine depth to groundwater are depicted on Figure 1. The Well Record for USGS well 32062810353301 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal dry wash, located approximately 970 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH (TPH-GRO, TPH-DRO, and TPH oil-range organics (ORO)): 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On November 17, 2022, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six delineation soil samples (SS01 through SS05) were collected within and around the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. The delineation soil samples were field screened for volatile aromatic hydrocarbons (VOCs) and chloride utilizing a calibrated photoionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COC): 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. Soil samples delivered to the laboratory the same day they are collected may not have equilibriated to the 6 degrees Celcius required for shipment and long-term storage, but are considered to have been received in acceptable condition by the laboratory.

Based on laboratory analyical results for SS01 and observed surficial staining, delineation and excavation activities appeared warranted.



XTO Energy, Inc Closure Request PLU 21 Brushy Draw 125H

DELINEATION AND EXCAVATION ACTIVITIES

Between December 29, 2022 and February 15, 2023, Ensolum returned to the Site to oversee delineation and excavation activities. Delineation boreholes (BH01 and BH02) were advanced within the relase extent by use of a hand auger and hydrovacuum to assess the vertical extent of the release. Borehole BH01 was advanced to a total depth of 3 feet bgs and discrete soil samples were collected at 1-foot bgs and 3 feet bgs. Borehole BH02 was advanced at the location of SS01 to a depth of 2 feet bgs and a discrete soil sample was collected at 2 feet bgs. Soil from the borehole was field screened for VOCs and chloride. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log, which is included as Appendix C. The delineation soil samples were handled, and analyzed following the same procedures as described above.

Following delineation activities, excavation of impacted soil was performed by use of hand tools and directed by field screening and visible staining. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing up to 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroghly mixing. Composite soil samples FS01 through FS04 were collected from the floor of the excavation from a depth of 0.5 feet bgs. Due to the shallow depth of the excavation, soil from the sidewalls was incorporated into all confirmation floor soil samples. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above.

Based on laboratory analytical results for soil samples, additional impacted soil was removed by use of heavy equipment to a depth of 1-foot bgs in the areas of FS01, FS02 and FS04. New 5-point composite soil samples dated February 15, 2023 were collected, handled, and analyzed following the same procedures as described above. The excavation extent and soil sample locations are presented on Figure 3.

The final excavation measured approximately 775 square feet. A total of approximately 29 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 indicated TPH concentrations exceeded the Closure Criteria. All other delineation soil samples collected indicated COC concentrations were compliant with the Closure Criteria and indicate the Site was vertically and laterally delineated to the strictest Table I Closure Criteria.

Laboratory analytical results for excavation soil samples FS01, FS02, and FS04 collected at 0.5 feet bgs indicated TPH-GRO/TPH-DRO concentrations ranged from 2,100 mg/kg to 2,960 mg/kg and the residual impacted soil was subsequently excavated. Laboratory analytical results for final excavation confirmation samples FS01 through FS04, collected at depths ranging from 0.5 feet to 1-foot bgs, indicated all COC were in compliance with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D. NMOCD notifications are included in Appendix E.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the October 4, 2022 release of crude oil and produced water. Laboratory analytical results for the excavation soil samples,



XTO Energy, Inc Closure Request PLU 21 Brushy Draw 125H

collected from the final excavation extent, indicated COC concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of soil has mitigated impacts exceeding the Closure Criteria. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believe these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number NAPP2210553504.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, **Ensolum**, **LLC**

thrang

Meredith Roberts Field Geologist

Ashley L. ager

Ashley L. Ager, M.S., P.G. Principal

cc: Garrett Green, XTO Shelby Pennington, XTO Ms. Janey Paschal

Appendices:

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





FIGURES

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TABLES

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ENSOLUM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS PLU 21 Brushy Draw 125H XTO Energy, Inc Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I C	losure Criteria (l	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
		I		Delir	neation Soil Sa	nples	1		<u>I</u>	1
SS01	11/17/2022	0.5	< 0.00199	<0.00398	<249	13,500	1,950	13,500	15,500	4,170
BH02	02/15/2023	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	307
BH01	12/29/2022	4	<0.0398	<0.0797	<50.0	429	144	429	573	6,460
BH01A	12/29/2022	3	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	477
SS02	11/17/2022	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	79.3
SS03	11/17/2022	0.5	<0.00200	<0.00401	<50.0	64.8	<50.0	64.8	64.8	126
SS04	11/17/2022	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	202
SS05	11/17/2022	0.5	<0.00199	<0.00398	<49.9	60.3	<49.9	60.3	60.3	458
				Exca	avation Soil Sa	nples				•
FS01	12/29/2022	0.5	<0.0401	< 0.0802	< 50.0	1,820	281	1,820	2,100	8,400
FS01	02/15/2023	1	<0.00200	<0.00400	<49.9	168	<49.9	168	168	2,650
FS02	12/29/2022	0.5	<0.0399	0.112	<49.9	1,970	305	1,970	2,280	5,610
FS02	02/15/2023	1	<0.00202	<0.00404	<50.0	138	<50.0	138	138	2,940
FS03	12/30/2022	0.5	<0.00201	<0.00402	<49.8	246	<49.8	246	246	2,760
FS04	12/30/2022	0.5	<0.0401	< 0.0802	106	2,850	<50.0	2,960	2,960	5,340
FS04	02/15/2023	1	<0.0020	<0.00403	<49.9	115	<49.9	115	115	1,590

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records

USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 V
 United States
 GO

Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 320628103533001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 320628103533001 25S.30E.21.333424

Eddy County, New Mexico Latitude 32°06'28", Longitude 103°53'30" NAD27 Land-surface elevation 3,207 feet above NAVD88 The depth of the well is 288 feet below land surface. This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1958-08-21		D	62610		2972.36	NGVD29	1	Z		
1958-08-21		D	62611		2974.00	NAVD88	1	Z		
1958-08-21		D	72019	233.00			1	Z		
1959-02-05		D	62610		2939.26	NGVD29	Р	Z		
1959-02-05		D	62611		2940.90	NAVD88	Р	Z		
1959-02-05		D	72019	266.10			Р	Z		
1983-02-01		D	62610		2945.48	NGVD29	1	Z		
1983-02-01		D	62611		2947.12	NAVD88	1	Z		
1983-02-01		D	72019	259.88			1	Z		
1998-01-28		D	62610		2940.76	NGVD29	1	S		
1998-01-28		D	62611		2942.40	NAVD88	1	S		
1998-01-28		D	72019	264.60			1	S		

Explanation

Section

Code

Description

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Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2023-01-26 14:19:14 EST 0.29 0.25 nadww02 USA.gov



APPENDIX B

Photographic Log





APPENDIX C

Lithologic/ Soil Sampling Logs

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				6				Sample Name: BH01	Date: 12/29/2022
			N	5 (D L	UR	7	Site Name: PLU 21 Brushy Drav	v 125H
		Enviro	nme	ental, En	gineering	and		Incident Number: NAPP222914	5683
		Hydro	geoi	ogic Cor	nsultants			Job Number: 03C1558142	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: MR	Method: Hand Auger	
	inates: 32.10							Hole Diameter: 4"	Total Depth: 3'
		-						PID for chloride and vapor, respe	-
perfor	med with 1:	4 dilutio	n fact	or of soil t	o distilled w	ater. A 40%	6 error fac	ctor is included for all chloride fi	eld screenings.
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic [Descriptions
	-			S		<u> 0 </u>		0-1' CALICHE, tan/ mediu sorted. sub-rounded g	m brown, dry, poorly rains, stained, odorous
					-	-			
D	5812.8	35.8	Ν	BH01	1	- 1 -		1-3' CALICHE, medium br sub-rounded grains, n	own, dry, poorly sorted, o staining, odorous
D	2536.8	21.8	N		-	2			
D	358.4	1.3	N	BH01A	3	3		3' CALICHE, light brown, o	dry, poorly sorted, sub- ining, no odor
					-	-	TD	rounded grains, no sta Total Depth @ 3'	
					-	-			
					-	-			
					-	-			
					-	-			
					-	-			
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				6				Sample Name: BH02	Date: 2/15/2023
			N	5 () L	UN	7	Site Name: PLU 21 Brushy Dra	aw 125H
					gineering	and		Incident Number: NAPP22291	L45683
		Hyaro	geoi	ogic Cor	nsultants			Job Number: 03C1558142	
	LI	THOLO	GIC /	/ SOIL SA	MPLING	LOG		Logged By: MR	Method: Hydrovac
Coordi	nates: 32.10	09274, -1	.03.8	3398				Hole Diameter: NA	Total Depth: 2'
		-						PID for chloride and vapor, resp ctor is included for all chloride	-
perior	ineu with 1.	4 นิเมินเบิ	Taci		o uistilleu w	aler. A 407			field screenings.
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
						0	CCHE	0-1' CALICHE, tan/ medi sorted, sub-rounded	um brown, dry, poorly grains, stained, odorous
D	520.8	1.5	Ν		-	1		1-2' CALICHE, medium b sub-rounded grains, i	rown, dry, poorly sorted, no staining, some odor
D	280	0.4	N	BH02	2	2		rounded grains, no st	dry, poorly sorted, sub- aining, no odor
					_	_	TD	Total Depth @ 2' bgs	
					-	-			
					-	-			
					_	-			
					_	-			
					-	-			
					_	-			
					-	-			
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APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 2/12/2025 1:55:23 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 3/20/2023 8:59:06 AM Revision 1

JOB DESCRIPTION

PLU 21 BRUSHY DRAW 125H SDG NUMBER 03E1558142

JOB NUMBER

890-3526-1

RT OR nings olum d St. 400 9701 ision 1

See page two for job notes and contact information.

Received by OCD: 2/12/2025 1:55:23 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 3/20/2023 8:59:06 AM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3526-1 SDG: 03E1558142

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	8
QC Sample Results	9
	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
	19
-	20
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Definitions/Glossary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Qualifiers

Page 34 of	244

lob ID: 890-3526-1
SDG: 03E1558142

Quannon		
GC VOA Qualifier	Qualifier Description	
*_	LCS and/or LCSD is outside acceptance limits, low biased.	
*1	LCS/LCSD RPD exceeds control limits.	
F1	MS and/or MSD recovery exceeds control limits.	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi V	ΑΟ	
Qualifier	Qualifier Description	
*1	LCS/LCSD RPD exceeds control limits.	
F1	MS and/or MSD recovery exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	4
U	Indicates the analyte was analyzed for but not detected.	

Glossarv

bbreviation	These commonly used abbreviations may or may not be present in this report.
I	Listed under the "D" column to designate that the result is reported on a dry weight basis
R	Percent Recovery
FL	Contains Free Liquid
FU	Colony Forming Unit
NF	Contains No Free Liquid
ER	Duplicate Error Ratio (normalized absolute difference)
il Fac	Dilution Factor
)L	Detection Limit (DoD/DOE)
L, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
LC	Decision Level Concentration (Radiochemistry)
DL	Estimated Detection Limit (Dioxin)
.OD	Limit of Detection (DoD/DOE)
.OQ	Limit of Quantitation (DoD/DOE)
1CL	EPA recommended "Maximum Contaminant Level"
IDA	Minimum Detectable Activity (Radiochemistry)
IDC	Minimum Detectable Concentration (Radiochemistry)
IDL	Method Detection Limit
1L	Minimum Level (Dioxin)
1PN	Most Probable Number
1QL	Method Quantitation Limit
IC	Not Calculated
ID	Not Detected at the reporting limit (or MDL or EDL if shown)
EG	Negative / Absent
OS	Positive / Present
QL	Practical Quantitation Limit
RES	Presumptive
2C	Quality Control
ER	Relative Error Ratio (Radiochemistry)
L	Reporting Limit or Requested Limit (Radiochemistry)
PD	Relative Percent Difference, a measure of the relative difference between two points
EF	Toxicity Equivalent Factor (Dioxin)
EQ	Toxicity Equivalent Quotient (Dioxin)
NTC	Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3526-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3526-1

REVISION

The report being provided is a revision of the original report sent on 12/1/2022. The report (revision 1) is being revised due to Per client email, correcting project name to match COC.

Report revision history

Receipt

The sample was received on 11/18/2022 8:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

GC VOA

Method 8021B: The absolute response for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene was greater than the method reporting limit (RL) in the following sample: (LCSD 880-40436/2-A). The instrument raw data has been manually reviewed and the result can be reported as ND.

Method 8021B: The matrix spike (MS) and/or matrix spike duplicate (MSD) recovery for preparation batch 880-40436 and analytical batch 880-40689 was outside control limits for the following analyte(s): Benzene and Toluene. Results may be biased high because this analyte is a common laboratory solvent and contaminant.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40436 and analytical batch 880-40689 was outside the control limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40343 and analytical batch 880-40262 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40343/2-A) and (LCSD 880-40343/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS05 (890-3526-1), (890-3525-A-1-B), (890-3525-A-1-C MS) and (890-3525-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-40343 and analytical batch 880-40262 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-40343 and analytical batch 880-40262 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40343 and analytical batch 880-40262 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 890-3526-1 SDG: 03E1558142

Job ID: 890-3526-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40010 and analytical batch 880-40325 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Client Sample ID: SS05 Date Collected: 11/17/22 12:55

Date Received: 11/18/22 08:20 Sample Depth: 0.5

Method: SW846 8021B - Vo	olatile Organic	Compoun	ds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U *- *1	0.00199	mg/Kg		11/28/22 11:21	12/01/22 03:16	1
Toluene	<0.00199	U *- *1	0.00199	mg/Kg		11/28/22 11:21	12/01/22 03:16	1
Ethylbenzene	<0.00199	U *- *1	0.00199	mg/Kg		11/28/22 11:21	12/01/22 03:16	1
m-Xylene & p-Xylene	<0.00398	U *- *1	0.00398	mg/Kg		11/28/22 11:21	12/01/22 03:16	1
o-Xylene	<0.00199	U *- *1	0.00199	mg/Kg		11/28/22 11:21	12/01/22 03:16	1
Xylenes, Total	<0.00398	U *- *1	0.00398	mg/Kg		11/28/22 11:21	12/01/22 03:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			11/28/22 11:21	12/01/22 03:16	1
1.4-Difluorobenzene (Surr)	90		70 - 130			11/28/22 11:21	12/01/22 03:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/01/22 13:21	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result Q	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	60.3		49.9	mg/Kg			11/28/22 11:40	1	

Method: SW846 8015B NM - D	Diesel Range	• Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/23/22 15:04	11/23/22 23:17	1
Diesel Range Organics (Over C10-C28)	60.3		49.9	mg/Kg		11/23/22 15:04	11/23/22 23:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/23/22 15:04	11/23/22 23:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			11/23/22 15:04	11/23/22 23:17	1
o-Terphenyl	132	S1+	70 - 130			11/23/22 15:04	11/23/22 23:17	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

4.99

mg/Kg

458 F1

11/23/22 21:29

1

Page 37 of 244

5

Job ID: 890-3526-1 SDG: 03E1558142

Lab Sample ID: 890-3526-1 Matrix: Solid

Released to Imaging: 2/18/2025 11:05:31 AM

Chloride

Surrogate Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

			Perce
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-3511-A-10-D MS	Matrix Spike	92	104
890-3511-A-10-E MSD	Matrix Spike Duplicate	101	95
890-3526-1	SS05	74	90
LCS 880-40436/1-A	Lab Control Sample	99	89
LCSD 880-40436/2-A	Lab Control Sample Dup	0 S1-	0 S1-
MB 880-40436/5-A	Method Blank	66 S1-	95

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid		•		Prep Type: Total/NA	
			Percent Surrogate R	ecovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-3525-A-1-C MS	Matrix Spike	145 S1+	159 S1+		13
890-3525-A-1-D MSD	Matrix Spike Duplicate	147 S1+	164 S1+		
890-3526-1	SS05	109	132 S1+		
LCS 880-40343/2-A	Lab Control Sample	175 S1+	217 S1+		
LCSD 880-40343/3-A	Lab Control Sample Dup	200 S1+	240 S1+		
MB 880-40343/1-A	Method Blank	155 S1+	184 S1+		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

5 6 7

Job ID: 890-3526-1 SDG: 03E1558142

Page 38 of 244

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Lab Sample ID: MB 880-40436/5-A

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analysis Batch: 40689 Prep Batch: 40436 MB MB Analyte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 11/28/22 11:21 11/30/22 17:06 1 Toluene <0.00200 U 0.00200 mg/Kg 11/28/22 11:21 11/30/22 17:06 1 Ethylbenzene mg/Kg 11/28/22 11:21 11/30/22 17:06 <0.00200 U 0.00200 1 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 11/28/22 11:21 11/30/22 17:06 1 o-Xylene <0.00200 U 0.00200 mg/Kg 11/28/22 11:21 11/30/22 17:06 1 Xylenes, Total <0.00400 U 0.00400 mg/Kg 11/28/22 11:21 11/30/22 17:06 MB MB %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 66 S1-70 - 130 4-Bromofluorobenzene (Surr) 11/28/22 11:21 11/30/22 17:06 1 1,4-Difluorobenzene (Surr) 95 70 - 130 11/28/22 11:21 11/30/22 17:06 1

Lab Sample ID: LCS 880-40436/1-A **Matrix: Solid** Analysis Batch: 40689

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1127		mg/Kg		113	70 - 130
Toluene	0.100	0.1182		mg/Kg		118	70 - 130
Ethylbenzene	0.100	0.1070		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2149		mg/Kg		107	70 - 130
o-Xylene	0.100	0.1084		mg/Kg		108	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-40436/2-A Matrix: Solid

Analysis Batch: 40689

Analysis Batch: 40689							Prep E	Batch: 4	40436
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	<0.00200	U *- *1	mg/Kg		0	70 - 130	200	35
Toluene	0.100	<0.00200	U *- *1	mg/Kg		0	70 - 130	200	35
Ethylbenzene	0.100	<0.00200	U *- *1	mg/Kg		0	70 - 130	200	35
m-Xylene & p-Xylene	0.200	<0.00400	U *- *1	mg/Kg		0	70 - 130	200	35
o-Xylene	0.100	<0.00200	U *- *1	mg/Kg		0	70 - 130	200	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	0	S1-	70 - 130
1,4-Difluorobenzene (Surr)	0	S1-	70 - 130

Lab Sample ID: 890-3511-A-10-D MS Matrix: Solid

Analysis Batch: 40689										Batch: 40436
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F1 *- *1	0.0996	0.1174		mg/Kg		118	70 - 130	
Toluene	<0.00201	U F1 *- *1	0.0996	0.1158		mg/Kg		116	70 - 130	

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

mg/Kg	118	70 - 130	
mg/Kg	107	70 - 130	
mg/Kg	107	70 - 130	
mg/Kg	108	70 - 130	
Client Somal		Control	

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 40436

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

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

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

Lab Sample ID: 890-3511-	-A-10-D MS						CI	ient Sa	mple ID: I	Matrix \$	Spike
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 40689									Prep E	atch: 4	0436
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00201	U *- *1	0.0996	0.09952		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene	<0.00402	U *- *1	0.199	0.2008		mg/Kg		101	70 - 130		
o-Xylene	<0.00201	U *- *1	0.0996	0.1059		mg/Kg		106	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	92		70 - 130								
	104		70 - 130								
1,4-Difluorobenzene (Surr)											
	-A-10-E MSD)				Client S	Samp	le ID: N	latrix Spil	ke Dup	licate
 Lab Sample ID: 890-3511-	-A-10-E MSD)				Client S	Samp	le ID: N	latrix Spil Prep Tv		
Lab Sample ID: 890-3511 Matrix: Solid	-A-10-E MSD)				Client S	Samp	le ID: N	Prep Ty	pe: Tot	al/NA
 Lab Sample ID: 890-3511-		Sample	Spike	MSD	MSD	Client S	Samp	le ID: N	Prep Ty		al/NA
Lab Sample ID: 890-3511 Matrix: Solid	Sample		Spike Added	-	MSD Qualifier	Client S	Samp D	le ID: N %Rec	Prep Ty Prep E	pe: Tot	al/NA 10436
Lab Sample ID: 890-3511 Matrix: Solid Analysis Batch: 40689	Sample Result	Sample	•	-	Qualifier				Prep Ty Prep E %Rec	pe: Tot Batch: 4	al/NA 10436 RPD
Lab Sample ID: 890-3511- Matrix: Solid Analysis Batch: 40689 Analyte	Sample 	Sample Qualifier	Added	Result	Qualifier F1	Unit		%Rec	Prep Ty Prep E %Rec Limits	pe: Tot Batch: 4	al/NA 10436 RPD Limit
Lab Sample ID: 890-3511- Matrix: Solid Analysis Batch: 40689 Analyte Benzene	Sample 	Sample Qualifier U F1 *- *1 U F1 *- *1	Added	Result 0.1370	Qualifier F1	Unit mg/Kg		%Rec 136	Prep Ty Prep E %Rec Limits 70 - 130	pe: Tot Batch: 4 <u>RPD</u> 15	al/NA 0436 RPD Limit 35
Lab Sample ID: 890-3511- Matrix: Solid Analysis Batch: 40689 Analyte Benzene Toluene	Sample Result <0.00201 <0.00201	Sample Qualifier U F1 *- *1 U F1 *- *1 U *- *1	Added	Result 0.1370 0.1331	Qualifier F1	<mark>Unit</mark> mg/Kg mg/Kg		%Rec 136 133	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: Tot Batch: 4 RPD 15 14	al/NA 10436 RPD Limit 35 35
Lab Sample ID: 890-3511- Matrix: Solid Analysis Batch: 40689 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00201 <0.00201 <0.00201	Sample Qualifier U F1 *- *1 U F1 *- *1 U *- *1 U *- *1	Added 0.100 0.100 0.100	Result 0.1370 0.1331 0.1144	Qualifier F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 136 133 114	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	Pe: Tot Batch: 4 RPD 15 14 14	al/NA 0436 RPD Limit 35 35 35
Lab Sample ID: 890-3511- Matrix: Solid Analysis Batch: 40689 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00201 <0.00201 <0.00201 <0.00402 <0.00201	Sample Qualifier U F1 *- *1 U F1 *- *1 U *- *1 U *- *1	Added 0.100 0.100 0.100 0.201	Result 0.1370 0.1331 0.1144 0.2338	Qualifier F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 136 133 114 116	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 15 14 14 15	al/NA 10436 RPD Limit 35 35 35 35
Lab Sample ID: 890-3511- Matrix: Solid Analysis Batch: 40689 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00201 <0.00201 <0.00201 <0.00402 <0.00201	Sample Qualifier U F1 *- *1 U F1 *- *1 U *- *1 U *- *1 U *- *1 MSD	Added 0.100 0.100 0.100 0.201	Result 0.1370 0.1331 0.1144 0.2338	Qualifier F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 136 133 114 116	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 15 14 14 15	al/NA 10436 RPD Limit 35 35 35 35
Lab Sample ID: 890-3511- Matrix: Solid Analysis Batch: 40689 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Sample Result <0.00201 <0.00201 <0.00201 <0.00402 <0.00201 MSD	Sample Qualifier U F1 *- *1 U F1 *- *1 U *- *1 U *- *1 U *- *1 MSD	Added 0.100 0.100 0.100 0.201 0.100	Result 0.1370 0.1331 0.1144 0.2338	Qualifier F1	Unit mg/Kg mg/Kg mg/Kg		%Rec 136 133 114 116	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 15 14 14 15	al/NA 10436 RPD Limit 35 35 35 35

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

Lab Sample ID: MB 880-40343/1-A Matrix: Solid Analysis Batch: 40262

Analysis Batch: 40262							Prep Batch:	40343
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/22 15:04	11/23/22 20:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/23/22 15:04	11/23/22 20:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/23/22 15:04	11/23/22 20:46	1
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	155	S1+	70 - 130
o-Terphenyl	184	S1+	70 - 130

Lab Sample ID: LCS 880-40343/2-A Matrix: Solid Analysis Batch: 40262

Analysis Batch: 40262							Prep E	atch: 40343
-	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	949.0	-	mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1030		mg/Kg		103	70 - 130	
C10-C28)								

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Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA

11/23/22 15:04 11/23/22 20:46

11/23/22 15:04 11/23/22 20:46

Client Sample ID: Lab Control Sample

Dil Fac

1

1

Prepared

Prep Type: Total/NA

Job ID: 890-3526-1 SDG: 03E1558142

-

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Lab Sample ID: LCS 880-40343/2-A

Lab Sample ID: LCSD 880-40343/3-A

Matrix: Solid

Surrogate

o-Terphenyl

1-Chlorooctane

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Analysis Batch: 40262

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

LCS LCS

175 S1+

217 S1+

145 S1+

159 S1+

%Recovery Qualifier

Job ID: 890-3526-1 SDG: 03E1558142

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 40343

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

5
7
8
9

Analysis Batch: 40262									Prep B		
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1193	*1	mg/Kg		119	70 - 130	23	20
Diesel Range Organics (Over C10-C28)			1000	1169		mg/Kg		117	70 - 130	13	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	200	S1+	70 - 130								
o-Terphenyl	240	S1+	70 - 130								
_											
Lab Sample ID: 890-3525 Matrix: Solid Analysis Batch: 40262	-A-1-C MS						CI	ient Sa	mple ID: I Prep Ty Prep B	pe: Tot	al/NA
Matrix: Solid		Sample	Spike	MS	MS		CI	ient Sa	Prep Ty	pe: Tot	al/NA
Matrix: Solid	Sample	Sample Qualifier	Spike Added		MS Qualifier	Unit	CI D	ient Sa %Rec	Prep Ty Prep E	pe: Tot	al/NA
Matrix: Solid Analysis Batch: 40262	Sample	Qualifier	-		-	Unit mg/Kg			Prep Ty Prep E %Rec	pe: Tot	al/NA
Matrix: Solid Analysis Batch: 40262 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Sample Result	Qualifier U *1	Added	Result	-			%Rec	Prep Ty Prep E %Rec Limits	pe: Tot	al/NA
Matrix: Solid Analysis Batch: 40262 Analyte Gasoline Range Organics (GRO)-C6-C10	Sample Result <49.9	Qualifier U *1	Added	Result 1143	-	mg/Kg		%Rec 114	Prep Ty Prep B %Rec Limits 70 - 130	pe: Tot	al/NA
Matrix: Solid Analysis Batch: 40262 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Sample Result <49.9 <49.9	Qualifier U *1	Added	Result 1143	-	mg/Kg		%Rec 114	Prep Ty Prep B %Rec Limits 70 - 130	pe: Tot	al/NA

70 - 130

70 - 130

Limits

70 - 130

70 - 130

Lab Sample ID: 890-3525-A-1-D MSD Matrix: Solid Analysis Batch: 10262

Analysis Batch: 40262									Prep E	Batch: 4	10343
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	1103		mg/Kg		111	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1360	F1	mg/Kg		136	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	164	S1+	70 - 130

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

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Client: Ensolum

QC Sample Results

Page 42 of 244

Job ID: 890-3526-1 SDG: 03E1558142

Project/Site: PLU 21 BRUSHY DRAW 125H

Method: 300.0 - Anions, Ion Chromatography

MBMBResultQualifierRLUnitDPreparedAnalyzetDil FacChloride<5.0005.00mg/KgDPreparedAnalyzetDil FacLab Sample ID: LCS 880-40010/2-A Matrix: SolidClient Sample ID: Lab Control Sample Prep Type: SolubleAnalyteAddedClient Sample ID: Lab Control Sample Prep Type: SolubleAnalyteAddedResult 243.9QualifierUnit mg/KgD%Rec 98Kec 98Lab Sample ID: LCSD 880-40010/3-A Matrix: Solid Analysis Batch: 40325Spike AddedLCS 243.9LCS mg/KgD%Rec 98Kec 98Limits 90.110Lab Sample ID: LCSD 880-40010/3-A Matrix: Solid Analysis Batch: 40325Spike AddedLCSD 246.3LCSD mg/KgD%Rec %Rec 99Prep Type: Soluble 90.110Lab Sample ID: LSD 880-3526-1 MS Matrix: Solid Analysis Batch: 40325Sample Sample AddedSpike AddedMS Result Qualifier MS MSMS MS MSMS MS MSD%Rec %Rec MSRep Limit mg/KgLab Sample ID: 890-3526-1 MS Matrix: Solid Analysis Batch: 40325Sample Sample Spike AddedSpike MS MS MSMS MS MSMS MS MSD%Rec %Rec MSLimit MS MSD%Rec %Rec Resul Matrix: Solid Analysis Batch: 40325Sample Sample Spike AddedSpike Result Qualifier MSMS MS MSD%Rec MS MSLimit MSD%Rec 	Lab Sample ID: MB 880-40010/ Matrix: Solid	'1-A							C	Clie	ent Sam	ple ID: M Prep T	lethod ype: So	
AnalyteResultQualifierRLUnitDPreparedAnalyzedDil FacChloride<5.00	Analysis Batch: 40325													
Choirde<5.00U5.00mg/Kg11/23/22 19:111Lab Sample ID: LCS 880-40010/2-A Matrix: Solid Analysis Batch: 40325Spike Added 250LCS 243.9LCS LCS 243.9LCS ULCS UMatrix Matrix: DMRec MRec LimitsAnalyte ChiorideAdded 250243.9Unit WalfferD WRec Matrix: Solid Analysis Batch: 40325MRec MRec LimitsLimits Prep Type: Soluble Prep Type: Soluble Prep Type: SolubleLab Sample ID: LCSD 880-40010/3-A Matrix: Solid AnalyteSpike Added 250LCSD 243.9Client Sample ID: Lab Control Sample Dup Prep Type: Soluble Prep Type: Soluble Prep Type: SolubleLab Sample ID: LCSD 880-40010/3-A Matrix: Solid AnalyteSpike Added 250LCSD 243.9Unit Walffer Unit Mg/KgD WRec WRec Limits MSMRec RPD Limits MSAnalyte ChiorideSample Sample 458Spike F1Spike Added Result QualifierUnit MS MS Result QualifierD WRec WRec MS MS MSClient Sample ID: SS05 Prep Type: SolubleLab Sample ID: 890-3526-1 MSD Matrix: Solid AnalyteSample Sample SpikeSpike Added AddedMS MS Result QualifierUnit MS MS MS MS MS MS MS MS MS MSDD WRec MS MSDWRec MRec LimitsClient Sample ID: SS05 Prep Type: SolubleLab Sample ID: 890-3526-1 MSD Matrix: Solid Analysis Batch: 40325Sample Sample SpikeSpike AddedMS MSD Result QualifierD WRec MS														
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Matrix: Solid Analysis Batch: 40325Prep Type: SolubleAnalyte ChlorideSpike AddedLCSD Result 250LCSD QualifierD with mg/Kg%Rec 99RPD Mint 90.110Limits 1RPD Limit 20Lab Sample ID: 890-3526-1 MS Matrix: Solid AnalyteSample Result QualifierSpike AddedMS Result QualifierMS MS MS F1MS 250MS MS MSClient Sample ID: SS05 Prep Type: SolubleLab Sample ID: 890-3526-1 MS Matrix: Solid AnalyteSample Result QualifierSpike AddedMS Result QualifierMS MS MS HS MSMS MS MS MSMS MS MS MSClient Sample ID: SS05 Prep Type: SolubleLab Sample ID: 890-3526-1 MSD Matrix: Solid Analysis Batch: 40325Sample SampleSpike Spike AddedMSD MSDMSD WRec MSD MSDClient Sample ID: SS05 Prep Type: SolubleLab Sample ID: 890-3526-1 MSD Matrix: Solid Analysis Batch: 40325Sample SampleSpike AddedMSD Result QualifierMSD MSD MSDWRec WRec Result MSDRec MRec LimitsPD Rec RPD Limit	Chloride			250		243.9		mg/Kg		_	98	90 - 110		
Matrix: Solid Analysis Batch: 40325Prep Type: SolubleAnalyte ChlorideSpike AddedLCSD Result 250LCSD QualifierD with mg/Kg%Rec 99RPD Mint 90.110Limits 1RPD Limit 20Lab Sample ID: 890-3526-1 MS Matrix: Solid AnalyteSample Result QualifierSpike AddedMS Result QualifierMS MS MS F1MS 250MS MS MSClient Sample ID: SS05 Prep Type: SolubleLab Sample ID: 890-3526-1 MS Matrix: Solid AnalyteSample Result QualifierSpike AddedMS Result QualifierMS MS MS HS MSMS MS MS MSMS MS MS MSClient Sample ID: SS05 Prep Type: SolubleLab Sample ID: 890-3526-1 MSD Matrix: Solid Analysis Batch: 40325Sample SampleSpike Spike AddedMSD MSDMSD WRec MSD MSDClient Sample ID: SS05 Prep Type: SolubleLab Sample ID: 890-3526-1 MSD Matrix: Solid Analysis Batch: 40325Sample SampleSpike AddedMSD Result QualifierMSD MSD MSDWRec WRec Result MSDRec MRec LimitsPD Rec RPD Limit	Lab Sample ID: LCSD 880 400	10/2 4						Nient C	• • • • •			Control	Compl	o Dun
Analysis Batch: 40325AnalyteSpikeLCSDLCSDUnitD%RecRPDLimitsChloride250246.3246.30120Lab Sample ID: 890-3526-1 MS Matrix: Solid Analysis Batch: 40325SampleSampleSpikeMSMSClient Sample ID: S05 Prep Type: SolubleAnalyteResult QualifierQualifier 458AddedSpikeMSMSVitit mg/KgD%Rec %RecLimits 120Lab Sample ID: 890-3526-1 MS Matrix: Solid AnalyteSample 458Spike F1MSMSMSVitit mg/KgD%Rec %RecLimits 100Lab Sample ID: 890-3526-1 MSD Matrix: Solid Analysis Batch: 40325Sample SpikeSpike AddedMSMSD%Rec MSDLimits 90-110Lab Sample ID: 890-3526-1 MSD Matrix: Solid Analysis Batch: 40325Sample SampleSpike AddedMSDMSDMSDYite NSDPrep Type: SolubleAnalyteResult QualifierQualifierAddedMSDMSDYite NSDYite NSDResultRPDAnalyteResult QualifierQualifierAddedMSDMSDYite NSDYite NSERPDAnalyteResult QualifierQualifierAddedResult ResultQualifierUnitD%RecRPDLab Sample ID: S05 Prep Type:SampleSampleSpike ResultMSDMSD <td>-</td> <td>10/3-A</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ment a</td> <td>bailit</td> <td>ле</td> <td>ID. Lau</td> <td></td> <td></td> <td></td>	-	10/3-A						ment a	bailit	ле	ID. Lau			
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Matrix: Solid Analysis Batch: 40325Prep Type: SolubleSample AnalyteSample QualifierSpike AddedMS Result 250MS Qualifier F1Unit mg/KgD %Rec 85%Rec Limits 90.110Lab Sample ID: 890-3526-1 MSD Matrix: Solid Analysis Batch: 40325Kesult SampleSpike 250MSD KSDKSD KSDClient Sample ID: SS05 Prep Type: SolubleAnalyteSample Result QualifierSpike QualifierMSD KSDMSD KSD%Rec KSDRPD Limit				250		240.3		mg/ĸg			99	90-110	I	20
Analysis Batch: 40325 Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits	Lab Sample ID: 890-3526-1 MS	;									CI	ient Sam	ple ID:	SS05
Sample AnalyteSample ResultSpike QualifierMS AddedMS QualifierUnit UnitD %Rec 85%Rec UnitAnalyte458F1250669.7F1Unit mg/KgD %RecLimits 90 - 110	Matrix: Solid											Prep T	ype: So	oluble
Sample AnalyteSample ResultSpike QualifierMS AddedMS QualifierUnit UnitD %Rec 85%Rec UnitAnalyte458F1250669.7F1Unit mg/KgD %RecLimits 90 - 110	Analysis Batch: 40325													
Chloride 458 F1 250 669.7 F1 mg/Kg 85 90.110 Lab Sample ID: 890-3526-1 MSD Matrix: Solid Analysis Batch: 40325 Client Sample ID: SS05 Prep Type: Soluble Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec RPD Limit	-	Sample	Sample	Spike		MS	MS					%Rec		
Lab Sample ID: 890-3526-1 MSD Client Sample ID: SS05 Matrix: Solid Prep Type: Soluble Analysis Batch: 40325 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD	Analyte	Result	Qualifier	Added	I	Result	Qualifier	Unit		D	%Rec	Limits		
Matrix: Solid Prep Type: Soluble Analysis Batch: 40325 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec RPD Limit	Chloride	458	F1	250		669.7	F1	mg/Kg		_	85	90 - 110		
Matrix: Solid Prep Type: Soluble Analysis Batch: 40325 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec RPD Limit	 I ab Sample ID: 890-3526-1 MS	л									C	iont Sam	nlo ID:	\$\$05
Analysis Batch: 40325 Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec RPD Limit	-												-	
Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limit												11001	J PC. 0	
Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit	Analysis Buton 40020	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
	Analyte	•	•	•	I			Unit		D	%Rec		RPD	
	Chloride			250				mg/Kg		_	85	90 - 110		20

QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

GC VOA

Prep Batch: 40436

Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
SS05	Total/NA	Solid	5035	
Method Blank	Total/NA	Solid	5035	
Lab Control Sample	Total/NA	Solid	5035	
Lab Control Sample Dup	Total/NA	Solid	5035	
Matrix Spike	Total/NA	Solid	5035	
Matrix Spike Duplicate	Total/NA	Solid	5035	
9				
Client Sample ID	Prep Type	Matrix	Method	Prep Batc
SS05	Total/NA	Solid	8021B	4043
Method Blank	Total/NA	Solid	8021B	4043
Lab Control Sample	Total/NA	Solid	8021B	4043
Lab Control Sample Dup	Total/NA	Solid	8021B	4043
Matrix Spike	Total/NA	Solid	8021B	4043
Matrix Spike Duplicate	Total/NA	Solid	8021B	4043
8				
Client Sample ID	Prep Type	Matrix	Method	Prep Batc
	Total/NA	Solid	Total BTEX	
	SS05 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate 19 Client Sample ID SS05 Method Blank Lab Control Sample Lab Control Sample Lab Control Sample Matrix Spike Matrix Spike Matrix Spike Matrix Spike Duplicate	SS05 Total/NA Method Blank Total/NA Lab Control Sample Total/NA Lab Control Sample Dup Total/NA Matrix Spike Total/NA Matrix Spike Total/NA Matrix Spike Duplicate Total/NA 19 Elient Sample ID Prep Type SS05 Total/NA Method Blank Total/NA Lab Control Sample Total/NA Lab Control Sample Total/NA Lab Control Sample Total/NA Matrix Spike Total/NA Matrix Spike Total/NA Matrix Spike Total/NA Matrix Spike Total/NA Matrix Spike Duplicate Total/NA Matrix Spike Duplicate Total/NA Matrix Spike Duplicate Total/NA	SS05 Total/NA Solid Method Blank Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Dup Total/NA Solid Matrix Spike Total/NA Solid Matrix Spike Duplicate Total/NA Solid S0 Total/NA Solid Matrix Spike Duplicate Total/NA Solid S05 Total/NA Solid S05 Total/NA Solid S05 Total/NA Solid Method Blank Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Total/NA Solid Lab Control Sample Dup Total/NA Solid Matrix Spike Total/NA Solid Matrix Spike Total/NA Solid Matrix Spike Duplicate Total/NA Solid Matrix Spike Duplicate Total/NA Solid	SS05 Total/NA Solid 5035 Method Blank Total/NA Solid 5035 Lab Control Sample Total/NA Solid 5035 Lab Control Sample Dup Total/NA Solid 5035 Matrix Spike Total/NA Solid 5035 Matrix Spike Total/NA Solid 5035 Matrix Spike Duplicate Total/NA Solid 5035 S05 Total/NA Solid 5035 S05 Total/NA Solid 5035 S05 Total/NA Solid 5035 S05 Total/NA Solid 8021B Method Blank Total/NA Solid 8021B Lab Control Sample Dup Total/NA Solid 8021B Lab Control Sample Dup Total/NA Solid 8021B Matrix Spike Total/NA Solid 8021B Matrix Spike Duplicate Total/NA Solid 8021B Matrix Spike Duplicate Total/NA Solid 8021B

Analysis Batch: 40262

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3526-1	SS05	Total/NA	Solid	8015B NM	40343
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015B NM	40343
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40343
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40343
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	40343
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40343

Prep Batch: 40343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3526-1	SS05	Total/NA	Solid	8015NM Prep	
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3526-1	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40010

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3526-1	SS05	Soluble	Solid	DI Leach	
MB 880-40010/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40010/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Page 43 of 244

Job ID: 890-3526-1 SDG: 03E1558142

QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

HPLC/IC (Continued)

Leach Batch: 40010 (Continued)

Lab Sample ID 890-3526-1 MS	Client Sample ID	Prep Type Soluble	Matrix	Method	Prep Batch
890-3526-1 MSD	SS05	Soluble	Solid	DI Leach	

Analysis Batch: 40325

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3526-1	SS05	Soluble	Solid	300.0	40010
MB 880-40010/1-A	Method Blank	Soluble	Solid	300.0	40010
LCS 880-40010/2-A	Lab Control Sample	Soluble	Solid	300.0	40010
LCSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40010
890-3526-1 MS	SS05	Soluble	Solid	300.0	40010
890-3526-1 MSD	SS05	Soluble	Solid	300.0	40010

Job ID: 890-3526-1 SDG: 03E1558142

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5

Lab Chronicle

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Client Sample ID: SS05 Date Collected: 11/17/22 12:55 Date Received: 11/18/22 08:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40436	11/28/22 11:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40689	12/01/22 03:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40798	12/01/22 13:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			40445	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40343	11/23/22 15:04	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/23/22 23:17	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	40010	11/20/22 12:21	СН	EET MID

50 mL

1

50 mL

40325

11/23/22 21:29 CH

Laboratory References:

Soluble

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

300.0

Analysis

Job ID: 890-3526-1

Page 45 of 244

SDG: 03E1558142

Lab Sample ID: 890-3526-1 Matrix: Solid

EET MID

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3526-1 SDG: 03E1558142

10

Laboratory: Eurofins Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
exas	NE	LAP	T104704400-22-25	12-19-22
The following englyter	are included in this repo	rt but the laboratory is r	ot certified by the governing authority.	This list may include analytas for which
the agency does not o	•	it, but the laboratory is i	lot certilled by the governing autionty.	
0,	•	Matrix	Analyte	
the agency does not o	ffer certification.			

Eurofins Carlsbad

Page 46 of 244

Method Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3526-1 SDG: 03E1558142

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Page 48 of 244

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3526-1
SDG: 03E1558142

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3526-1	SS05	Solid	11/17/22 12:55	11/18/22 08:20	0.5

Released to Imaging: 2/18/2025 11:05:31 AM

	Xenco	Xenco		EL Paso, Hobbs, Nt	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.xenco.com	om Page of
Project Manager	Kalei Jennings		Bi	Bill to: (if different)	Garrett Green		Work Ord	omments
Company Name:	Ensolum		Co	Company Name:	XTO Energy	P	Program: UST/PST PRP Br	PRP Brownfields RRC Superfund
Address.	3122 National Parks Hwy	irks Hwy	Ad	Address:	3104 E. Green St.	St	State of Project:	
City, State ZIP:	Carlsbad, NM 88220	220	Ci	City, State ZIP:	Carlsbad, NM 88220			
Phone:	303-887-2946		Email: Ga	arrett.Green@E	Garrett.Green@ExxonMobil.com		Deliverables: EDD AD	ADaPT D Other:
Project Name:	PLU 21 Brushy Draw 125H	ny Draw 125H	Jurn Around			ANALYSIS REQUEST	ST	Preservative Codes
Project Number:	03E1t	03E1558142	Routine	Rush Code				None: NO DI Water H ₂ O
Project Location:			Due Date:					⊻
Sampler's Name:	Connor	Connor Whitman	TAT starts the day received by	ay received by				
PO #:			the lab, if receive	<u> </u>		-		H2SO4: H2 NaOH: Na
SAMPLE RECEIPT	IPT Temp Blank:	nk: dee No	Wet Ice:	No nete				H ₃ PO ₄ : HP
Samples Received Intact:	-	o Thermometer ID:		Enn -007				NaHSO4: NABIS
Cooler Custody Seals:	Is: Yes No	NA Correction Factor:	actor:	- F. C.				$Na_2S_2O_3$: $NaSO_3$
Sample Custody Seals:	Yes No	N/A Temperature Reading:	Reading:	1.2.1)	890-3526 Chain of Custody	Custody	
Sample Identification		Matrix Date Time	2	Depth Grab/ # of	HLORIE PH (801 TEX (80			Sample Comments
2002		5 11/17/22	-	3				Incident ID:
	0		ž	-				nAPP2229145683
/								Cost Center:
		/						1666421001
								AFE:
				/				
					KK			
				~	/			
Total 200.7 / 6010	010 200.8 / 6020:		8RCRA 13PPM	Texas 11 Al	Al Sb As Ba Be B		< Se A	2 Na Sr TI Sn U V Zn 31/2451/7470/7471
Circle Method(s) and Metal(s) to be analyzed	nd Metal(s) to be	analyzed	TCLP / SPL	9 6010: 8RCR	A SD AS BA BE O	TCLP/SPLP 6010: 8RCRA SD AS BA BE CO CO CO PO WIT WO N	IND IN DE AG IT O TIG. TO	nditions
Notice: Signature of this of service. Eurofins Xenu of Eurofins Xenco. A min	document and relinquis co will be liable only for timum charge of \$85.00	hment of samples consi the cost of samples and will be applied to each	titutes a valid purcha d shall not assume an project and a charge	se order from client vy responsibility for a of \$5 for each samp	company to Eurofins Xenc iny losses or expenses inc le submitted to Eurofins X	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its attiliates and subcontractors. It assigns standard, terms and community of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotia of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. but not analyzed.	tors. It assigns standard, terms and commons are due to circumstances beyond the control terms will be enforced unless previously negotiated	е <u>д</u> .
Relinquished by: (Signature)	/: (Signature)	Receive	Received by: (Signature)	(6	Date/Time	Relinquished by: (Signature)) Received by: (Signature)	nature) Date/Time
· Caloto		America	La Situ	the man	1102208			
ω		1				4		
5						5		Revised Date: 00/25/2020 Rev 2020.2

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12 13

Chain of Custody

3/20/2023 (Rev. 1)

Released to Imaging: 2/18/2025 11:05:31 AM

Job Number: 890-3526-1 SDG Number: 03E1558142

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3526 List Number: 1 Creator: Clifton, Cloe

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

14

Job Number: 890-3526-1 SDG Number: 03E1558142

List Source: Eurofins Midland

List Creation: 11/21/22 08:46 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3526 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 2/12/2025 1:55:23 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 3/20/2023 9:00:57 AM Revision 1

JOB DESCRIPTION

PLU 21 BRUSHY DRAW 125H SDG NUMBER 03E1558142

JOB NUMBER

890-3527-1

ED F ei Jenn Enso arienfelo Suite exas 79 AM Revi AM Revi RIPTI RAW 1 3E1558

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Received by OCD: 2/12/2025 1:55:23 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 3/20/2023 9:00:57 AM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3527-1

SDG: 03E1558142

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

Definitions/Glossary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Qualifiers

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

HPLC/IC

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

Glossary

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

3

12 13

Job ID: 890-3527-1

SDG: 03E1558142

Case Narrative

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3527-1 SDG: 03E1558142

Job ID: 890-3527-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3527-1

REVISION

The report being provided is a revision of the original report sent on 11/29/2022. The report (revision 1) is being revised due to Per client email, correcting project name to match COC.

Report revision history

Receipt

The sample was received on 11/18/2022 8:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-40465 and analytical batch 880-40503 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40343 and analytical batch 880-40262 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40343/2-A) and (LCSD 880-40343/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS04 (890-3527-1), (890-3525-A-1-B), (890-3525-A-1-C MS) and (890-3525-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-40343 and analytical batch 880-40262 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-40343 and analytical batch 880-40262 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40343 and analytical batch 880-40262 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40010 and analytical batch 880-40325 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3527-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

Job ID: 890-3527-1 SDG: 03E1558142

Released to Imaging: 2/18/2025 11:05:31 AM

Client Sample Results

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Client Sample ID: SS04 Date Collected: 11/17/22 12:50

Date Received: 11/18/22 08:20 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/28/22 12:47	11/29/22 06:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/28/22 12:47	11/29/22 06:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/28/22 12:47	11/29/22 06:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/28/22 12:47	11/29/22 06:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/28/22 12:47	11/29/22 06:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/28/22 12:47	11/29/22 06:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			11/28/22 12:47	11/29/22 06:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/28/22 12:47	11/29/22 06:37	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/29/22 09:39	1
Method: SW846 8015 NM - Dies	el Range	Organics (DRO) (GC)					

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/28/22 11:40	1

Method: SW846 8015B NM - D	Diesel Range	• Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		11/23/22 15:04	11/23/22 23:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/23/22 15:04	11/23/22 23:38	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/23/22 15:04	11/23/22 23:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			11/23/22 15:04	11/23/22 23:38	1
o-Terphenyl	136	S1+	70 - 130			11/23/22 15:04	11/23/22 23:38	1
Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	202		4.97	mg/Kg			11/23/22 21:54	1

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Job ID: 890-3527-1 SDG: 03E1558142

Matrix: Solid

Lab Sample ID: 890-3527-1

Surrogate Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

			Pe
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-21770-A-1-G MS	Matrix Spike	93	108
880-21770-A-1-H MSD	Matrix Spike Duplicate	90	98
890-3527-1	SS04	96	96
LCS 880-40465/1-A	Lab Control Sample	87	108
LCSD 880-40465/2-A	Lab Control Sample Dup	90	108
MB 880-40465/5-A	Method Blank	62 S1-	92
Surrogate Legend			

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid		•		Prep Type: Total/NA	
			Percent Surrogate R	ecovery (Acceptance Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-3525-A-1-C MS	Matrix Spike	145 S1+	159 S1+		13
890-3525-A-1-D MSD	Matrix Spike Duplicate	147 S1+	164 S1+		
890-3527-1	SS04	112	136 S1+		
LCS 880-40343/2-A	Lab Control Sample	175 S1+	217 S1+		
LCSD 880-40343/3-A	Lab Control Sample Dup	200 S1+	240 S1+		
MB 880-40343/1-A	Method Blank	155 S1+	184 S1+		

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

5 6 7

Job ID: 890-3527-1 SDG: 03E1558142

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Page 59 of 244

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Lab Sample ID: MB 880-40465/5-A

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analysis Batch: 40503							Prep Batch:	40465
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		11/28/22 12:47	11/28/22 20:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:47	11/28/22 20:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:47	11/28/22 20:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/28/22 12:47	11/28/22 20:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:47	11/28/22 20:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/28/22 12:47	11/28/22 20:27	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130			11/28/22 12:47	11/28/22 20:27	1
1,4-Difluorobenzene (Surr)	92		70 - 130			11/28/22 12:47	11/28/22 20:27	1

Lab Sample ID: LCS 880-40465/1-A Matrix: Solid Analysis Batch: 40503

Analysis Batch: 40503							Prep Batch: 40465
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.09543		mg/Kg		95	70 - 130
Toluene	0.100	0.09266		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.08841		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1754		mg/Kg		88	70 - 130
o-Xylene	0.100	0.08922		mg/Kg		89	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: LCSD 880-40465/2-A Matrix: Solid

Analysis Batch: 40503

Analysis Batch: 40503								Batch: 40465	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1066		mg/Kg		107	70 - 130	11	35
Toluene	0.100	0.09978		mg/Kg		100	70 - 130	7	35
Ethylbenzene	0.100	0.09260		mg/Kg		93	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1838		mg/Kg		92	70 - 130	5	35
o-Xylene	0.100	0.09332		mg/Kg		93	70 - 130	4	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-21770-A-1-G MS Matrix: Solid

Matrix: Solid Analysis Batch: 40503										e: Total/NA atch: 40465
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.08481		mg/Kg		85	70 - 130	
Toluene	<0.00200	U	0.0996	0.08454		mg/Kg		85	70 - 130	

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Client Sample ID: Matrix Spike

5

7

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

Lab Sample ID: 880-21770 Matrix: Solid Analysis Batch: 40503	-A-1-G MS						CI	ient Sa	mple ID: Prep Ty Prep E		al/NA
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Ethylbenzene	<0.00200	U	0.0996	0.07697		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene	<0.00401	U	0.199	0.1546		mg/Kg		78	70 - 130		
o-Xylene	<0.00200	U	0.0996	0.07769		mg/Kg		78	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	93		70 - 130								
1,4-Difluorobenzene (Surr)	108		70 - 130								
_											
Lab Sample ID: 880-21770 Matrix: Solid Analysis Batch: 40503	-A-1-H MSC)				Client	Samp	le ID: N	latrix Spi Prep Ty Prep E		al/NA
Matrix: Solid) Sample	Spike	MSD	MSD	Client	Samp	le ID: N	Prep Ty	pe: Tot	al/NA
Matrix: Solid	Sample		Spike Added	-	MSD Qualifier	Client S	Samp D	le ID: N %Rec	Prep Ty Prep E	pe: Tot	al/NA 10465
Matrix: Solid Analysis Batch: 40503	Sample	Sample Qualifier	•	-	-				Prep Ty Prep E %Rec	pe: Tot Batch: 4	al/NA 10465 RPD
Matrix: Solid Analysis Batch: 40503 Analyte	Sample Result	Sample Qualifier U	Added	Result	-	Unit		%Rec	Prep Ty Prep E %Rec Limits	pe: Tot Batch: 4	al/NA 10465 RPD Limit
Matrix: Solid Analysis Batch: 40503 Analyte Benzene	Sample Result <0.00200	Sample Qualifier U	Added	Result 0.08061	-	Unit mg/Kg		%Rec 81	Prep Ty Prep E %Rec Limits 70 - 130	pe: Tot Batch: 4 <u>RPD</u> 5	al/NA 10465 RPD Limit 35
Matrix: Solid Analysis Batch: 40503 Analyte Benzene Toluene	Sample Result <0.00200 <0.00200	Sample Qualifier U U U	Added	Result 0.08061 0.07752	-	Unit mg/Kg mg/Kg		%Rec 81 78	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130	pe: Tot Batch: 4 	al/NA 10465 RPD Limit 35 35
Matrix: Solid Analysis Batch: 40503 Analyte Benzene Toluene Ethylbenzene	Sample Result <0.00200 <0.00200 <0.00200	Sample Qualifier U U U U	Added 0.0994 0.0994 0.0994	Result 0.08061 0.07752 0.06982	-	Unit mg/Kg mg/Kg mg/Kg		%Rec 81 78 70	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130	Pe: Tot Batch: 4 <u>RPD</u> 5 9 10	al/NA 10465 RPD Limit 35 35 35
Matrix: Solid Analysis Batch: 40503 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00200 <0.00200 <0.00200 <0.00401 <0.00200	Sample Qualifier U U U U	Added 0.0994 0.0994 0.0994 0.199	Result 0.08061 0.07752 0.06982 0.1390	-	Unit mg/Kg mg/Kg mg/Kg		%Rec 81 78 70 70	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 5 10 11	al/NA 10465 RPD Limit 35 35 35 35 35
Matrix: Solid Analysis Batch: 40503 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Sample Result <0.00200 <0.00200 <0.00200 <0.00401 <0.00200	Sample Qualifier U U U U U U U MSD	Added 0.0994 0.0994 0.0994 0.199	Result 0.08061 0.07752 0.06982 0.1390	-	Unit mg/Kg mg/Kg mg/Kg		%Rec 81 78 70 70	Prep Ty Prep E %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	RPD 5 10 11	al/NA 10465 RPD Limit 35 35 35 35 35

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

98

Lab Sample ID: MB 880-40343/1-A Matrix: Solid Analysis Batch: 40262

1,4-Difluorobenzene (Surr)

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/22 15:04	11/23/22 20:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/23/22 15:04	11/23/22 20:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/23/22 15:04	11/23/22 20:46	1
	MB	MB						

70 - 130

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	155	S1+	70 - 130
o-Terphenyl	184	S1+	70 - 130

Lab Sample ID: LCS 880-40343/2-A Matrix: Solid Analysis Batch: 40262

Analysis Batch: 40262							Prep E	atch: 40343
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	949.0		mg/Kg		95	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1030		mg/Kg		103	70 - 130	
C10-C28)								

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Client Sample ID: Method Blank

Prepared

Prep Type: Total/NA

Analyzed

Prep Type: Total/NA

11/23/22 15:04 11/23/22 20:46

11/23/22 15:04 11/23/22 20:46

Client Sample ID: Lab Control Sample

Dil Fac

1

1

Prep Batch: 40343

Page 61 of 244

Job ID: 890-3527-1 SDG: 03E1558142

Released to Imaging: 2/18/2025 11:05:31 AM

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Lab Sample ID: LCS 880-40343/2-A

Matrix: Solid

Analysis Batch: 40262

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

				Job ID: SDG: (: 890-3 03E155		2
าน	ed)						3
	Client	Sai	nple ID	: Lab Con Prep Tyj			4
				Prep B	atch: 4	0343	5
							6
							7
C	lient Sam	ple	ID: Lab	Control S Prep Tyj Prep B	pe: Tot	al/NA	8
				%Rec		RPD	
er	Unit	D	%Rec	Limits	RPD	Limit	9
	mg/Kg	_	119	70 - 130	23	20	10
	mg/Kg		117	70 - 130	13	20	11
							12
							13
		CI	ient Sa	mple ID: M Prep Tyj Prep B %Rec	pe: Tot	al/NA	14
er	Unit	D	%Rec	Limits			
	mg/Kg	_	114	70 - 130			
	mg/Kg		130	70 - 130			
	Client Sa	mp	le ID: N	latrix Spik Prep Tyj	pe: Tot	al/NA	
				Prep B %Rec	atch: 4	0343 RPD	
er	Unit	D	%Rec	Limits	RPD	Limit	
	mg/Kg		111	70 - 130	4	20	

		LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	175	S1+	70 - 130
o-Terphenyl	217	S1+	70 - 130

Analysis Batch: 40262							Prep E	satch: 4	40343
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	 1000	1193	*1	mg/Kg		119	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	1169		mg/Kg		117	70 - 130	13	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	200	S1+	70 - 130
o-Terphenyl	240	S1+	70 - 130

Lab Sample ID: 890-3525-A-1-C MS

Matrix: Solid Analysis Batch: 40262										pe: Total/NA atch: 40343
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1143		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1303		mg/Kg		130	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

Lab Sample ID: 890-3525-A-1-D MSD Matrix: Solid Analysis Batch: 40262

Allalysis Dalch. 40202									Fiepe	balun. 4	+0343
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	1103		mg/Kg		111	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1360	F1	mg/Kg		136	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	164	S1+	70 - 130

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Client: Ensolum

QC Sample Results

Job ID: 890-3527-1 SDG: 03E1558142

Project/Site: PLU 21 BRUSHY DRAW 125H
Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40010	/ 1-A							C	Clie	nt Sam	ple ID: M	ethod	Blank
Matrix: Solid											Prep T	ype: So	oluble
Analysis Batch: 40325													
		MB MB											
Analyte		sult Qualif	ier	RL		Unit		D	Pr	epared	Analyz		Dil Fac
Chloride	<5	5.00 U		5.00		mg/ł	٢g				11/23/22	19:11	1
Lab Sample ID: LCS 880-4001	0/2-A						Cli	ent \$	San	nple ID	: Lab Cor	ntrol Sa	ample
Matrix: Solid											Prep T	ype: So	oluble
Analysis Batch: 40325													
			Spike)	LCS	LCS					%Rec		
Analyte			Addeo			Qualifier			D	%Rec	Limits		
Chloride			250)	243.9		mg/Kg			98	90 - 110		
Lab Sample ID: LCSD 880-400	10/3-A						Client S	amr	ole	ID: Lab	Control	Sample	e Dup
Matrix: Solid											Prep T		
Analysis Batch: 40325													
-			Spike)	LCSD	LCSD					%Rec		RPD
Analyte			Addeo	I	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride			250)	246.3		mg/Kg			99	90 - 110	1	20
Lab Sample ID: 890-3526-A-1-I	BMS								Cli	ent Sa	mple ID:	Matrix	Spike
Matrix: Solid											· Prep T		
Analysis Batch: 40325													
-	Sample	Sample	Spike)	MS	MS					%Rec		
Analyte		Qualifier	Addeo	I		Qualifier	Unit		D	%Rec	Limits		
Chloride	458	F1	250)	669.7	F1	mg/Kg		_	85	90 - 110		
Lab Sample ID: 890-3526-A-1-0							Clien	t Sai	mpl	e ID: M	latrix Spil	ke Dup	licate
Matrix: Solid											Prep T		
Analysis Batch: 40325													
-	Sample	Sample	Spike)	MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Addeo	I	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride	458	F 4	250		670.8		mg/Kg		_	85	90 - 110	0	20

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QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

GC VOA

Prep Batch: 40465

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3527-1	SS04	Total/NA	Solid	5035	
MB 880-40465/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40465/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40465/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21770-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-21770-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 4050	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3527-1	SS04	Total/NA	Solid	8021B	40465
MB 880-40465/5-A	Method Blank	Total/NA	Solid	8021B	40465
LCS 880-40465/1-A	Lab Control Sample	Total/NA	Solid	8021B	40465
LCSD 880-40465/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40465
880-21770-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	40465
880-21770-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40465
nalysis Batch: 4057	'9				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3527-1	SS04	Total/NA	Solid	Total BTEX	

Analysis Batch: 40262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3527-1	SS04	Total/NA	Solid	8015B NM	40343
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015B NM	40343
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40343
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40343
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	40343
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40343

Prep Batch: 40343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3527-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40446

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
890-3527-1	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 40010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3527-1	SS04	Soluble	Solid	DI Leach	
MB 880-40010/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40010/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Page 64 of 244

Job ID: 890-3527-1 SDG: 03E1558142

QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

HPLC/IC (Continued)

Leach Batch: 40010 (Continued)

Lab Sample ID 890-3526-A-1-B MS	Client Sample ID Matrix Spike	Prep Type Soluble	Matrix Solid	DI Leach	Prep Batch
890-3526-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 40325

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3527-1	SS04	Soluble	Solid	300.0	40010
MB 880-40010/1-A	Method Blank	Soluble	Solid	300.0	40010
LCS 880-40010/2-A	Lab Control Sample	Soluble	Solid	300.0	40010
LCSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40010
890-3526-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	40010
890-3526-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40010

Page 65 of 244

5

Job ID: 890-3527-1 SDG: 03E1558142

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Lab Chronicle

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Analysis

Client Sample ID: SS04 Date Collected: 11/17/22 12:50 Date Received: 11/18/22 08:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	40465	11/28/22 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40503	11/29/22 06:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40579	11/29/22 09:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			40446	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	40343	11/23/22 15:04	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/23/22 23:38	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	40010	11/20/22 12:21	СН	EET MID

50 mL

1

40325

50 mL

11/23/22 21:54 CH

Laboratory References:

Soluble

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

300.0

Job ID: 890-3527-1

Page 66 of 244

SDG: 03E1558142

Lab Sample ID: 890-3527-1

Matrix: Solid

EET MID

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3527-1 SDG: 03E1558142

Laboratory: Eurofins Midland

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

uthority	Pr	ogram	Identification Number	Expiration Date
exas	NE	ELAP	T104704400-22-25	12-19-22
The full state of the second state	and the standard for all the second			This list many include, an above for which
the agency does not o	•	ort, but the laboratory is h	lot certified by the governing authority.	This list may include analytes for whic
• •	•	ort, but the laboratory is n Matrix	Analyte	This list may include analytes for which
the agency does not o	ffer certification.			

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3527-1 SDG: 03E1558142

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Page 69 of 244

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3527-1
SDG: 03E1558142

Lab Sample ID Client Sample ID Matrix Collected Received Depth 890-3527-1 SS04 Solid 11/17/22 12:50 11/18/22 08:20 0.5						
890-3527-1 SS04 Solid <u>11/17/22 12:50</u> 11/18/22 08:20 0.5	Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
	890-3527-1	SS04	Solid	11/17/22 12:50	11/18/22 08:20	0.5

eurotins		Environm Xenco	Environment Testing Xenco	ing	Hob Hob	uston, TX Ind, TX (43 Paso, TX (bbs, NM (5	(281) 240-42(32) 704-5440, (915) 585-344 675) 392-7550	00. Dalias, San Anton 3, Lubbock 9, Carlsbad	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199		Work Order No:	0:
Project Manager:	Kalei Jennings				Bili to: (if different)		Garrett Green	en			Work Order Comments	Comments
	Ensolum				Company Name		XTO Energy	×		Program:	Program: UST/PST PRP Brownfields RRC Superfund	vnfields 🗌 RRC 🗌 Su
	3122 National Parks Hwy	arks Hwy			Address:		3104 E. Green St	en St.		State of Project:	roject:	
e ZIP:	Carlsbad, NM 88220	8220			City, State ZIP		Carlsbad, NM 88220	M 88220		Reporting:	Reporting: Level II Level III PST/UST TRRP	
	303-887-2946			Email:	Garrett.Green@ExxonMobil.com	n@Exx	onMobil.co	Э		Deliverables: EDD		ADaPT LL Other:
Project Name:	PLU 21 Brushv Draw 125H	shy Draw	125H	Tur	Around				ANALYSIS REQUEST	QUEST		Preservative Codes
Project Number:	03E	03E1558142		Onoutine	Rush	Pres. Code						None: NO DI Water: H ₂ O
Project Location:				Due Date:								Cool: Cool MeOH: Me
Sampler's Name:	Conno	Connor Whitman		TAT starts th	TAT starts the day received by	, <u>v</u>						
PO#		_		the lab, if rec	the lab, if received by 4.3upili					_		H2SU4: H2 NACH NA
SAMPLE RECEIPT	IPT Temp Blank:		Yes No	Wet Ice:	Nos No	nete	.0)					H ₃ PO ₄ HP
Samples Received Intact	act (Yes)		Thermometer ID:	D	1 mm-00	Para	: 300					Natso, Naso,
Cooler Custody Seals	S. Yes NO	MIA TO	Temperature Reading	Stor.	4.4		(EPA					Zn Acetate+NaOH Zn
Total Containers:			Corrected Temperature:	nperature:	412	M	-	1021)	890-3527 Chain of Custody	Custody		NaOH+Ascorbic Acid: SAPC
Sample Identification	ntification	Matrix	Date Sampled	Time Sampled	Depth Grab/ Comp	b/ # of p Cont	CHLOR	BTEX (Sample Comments
(204		5 =	11/17/22	12:50	is la	-	-					Incident ID:
10		Ì										nAPP2229145683
	/											Cost Center:
												1666421001
										+		AFE:
		_			Å		-					
						X	6					
								/				
Total 200.7 / 6010 200.8 / 6020:	010 200.8 / 6020:)20:		BRCRA 13PPM	DM Texas 11	AI Sb) As Ba Be Sh As Ba F	Be Cd	Ca Cr Co Cu Fe Pb Cr Co Cu Pb Mn Mo	Mg Mn Mo Ni K Ni Se Aa TI U	< Se /	Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631/245.1/7470 /7471
Notice: Signature of this of of service. Eurofins Xenco of Eurofins Xenco. A mini	document and relingu co will be liable only fo himum charge of \$85.0	shment of sa or the cost of 0 will be appl	imples constit samples and a	utes a valid pur shall not assum	rchase order from ne any responsibili arge of \$5 for each	client com ity for any l 1 sample su	pany to Eurofi losses or expendent	ns Xenco, it nses incurr rofins Xenci	Notice: Signature of this document and reinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negotiated of Eurofins Xenco.	t assigns stand due to circum: will be enforced	lard terms and conditions stances beyond the control tunless previously negotiated.	
Relinquished by: (Signature)	/: (Signature)		Received	Received by: (Signature)	ture)		Date/Time		Relinquished by: (Signature)	ture)	Received by: (Signature)	lure) Date/Time
10.40		Airon	and	alla a	-	11	ee/31	2680	Ø			
3								4		+		

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3527 List Number: 1 Creator: Clifton, Cloe

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

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 2/18/2025 11:05:31 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3527 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-3527-1

SDG Number: 03E1558142 List Source: Eurofins Midland

List Creation: 11/21/22 08:46 AM
Received by OCD: 2/12/2025 1:55:23 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701 Generated 11/29/2022 8:58:21 AM

JOB DESCRIPTION

PLU 21 BRUSHY DRAW 125H SDG NUMBER 03E1558142

JOB NUMBER

890-3528-1

RT FOR nings solum adley e 210 9701 :21 AM

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Received by OCD: 2/12/2025 1:55:23 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 11/29/2022 8:58:21 AM

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

1

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3528-1 SDG: 03E1558142

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	8
QC Sample Results	9
	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

	Definitions/Glossary		
Client: Ensolu		Job ID: 890-3528-1	
Project/Site: P	LU 21 BRUSHY DRAW 125H	SDG: 03E1558142	
Qualifiers			
GC VOA			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		-
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA	N Contraction of the second		
Qualifier	Qualifier Description		
*1	LCS/LCSD RPD exceeds control limits.		
F1	MS and/or MSD recovery exceeds control limits.		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		

Clossaly	
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

.

Job ID: 890-3528-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3528-1

Receipt

The sample was received on 11/18/2022 8:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS03 (890-3528-1).

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40466 and analytical batch 880-40361 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-21941-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS03 (890-3528-1) and (880-21941-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40343 and analytical batch 880-40262 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40343/2-A) and (LCSD 880-40343/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS03 (890-3528-1), (890-3525-A-1-B), (890-3525-A-1-C MS) and (890-3525-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-40343 and analytical batch 880-40262 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-40343 and analytical batch 880-40262 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40343 and analytical batch 880-40262 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40010 and analytical batch 880-40325 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Job ID: 890-3528-1

SDG: 03E1558142

Case Narrative

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3528-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3528-1 SDG: 03E1558142

Client Sample ID: SS03

Date Collected: 11/17/22 12:45 Date Received: 11/18/22 08:20

Sample Depth: 0.5

Client: Ensolum

- пл.	othod.	SW846 8021B - Volatile Organic Compounds (GC)
	ethou.	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 01:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 01:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 01:55	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/28/22 12:53	11/29/22 01:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 01:55	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/28/22 12:53	11/29/22 01:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130			11/28/22 12:53	11/29/22 01:55	1
1,4-Difluorobenzene (Surr)	109		70 - 130			11/28/22 12:53	11/29/22 01:55	1
Method: TAL SOP Total BTEX - To	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/29/22 09:34	1
Method: SW846 8015 NM - Diesel	l Range Organ		GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
				0.0				
Method: SW846 8015 NM - Diesel	l Range Organ	ics (DRO) (<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diesel Analyte Total TPH	I Range Organ 	ics (DRO) (Qualifier	RL 50.0	Unit	<u>D</u>	Prepared		
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies	I Range Organ - <u>Result</u> 64.8 el Range Orga	ics (DRO) (Qualifier nics (DRO)	RL 50.0	Unit mg/Kg		<u> </u>	11/28/22 11:40	1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	I Range Organ Result 64.8 el Range Orga Result	ics (DRO) (Qualifier nics (DRO) Qualifier	RL 50.0 (GC) RL	Unit mg/Kg Unit	D	Prepared		
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	I Range Organ - <u>Result</u> 64.8 el Range Orga	ics (DRO) (Qualifier nics (DRO) Qualifier	RL 50.0	Unit mg/Kg		<u> </u>	11/28/22 11:40	1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	I Range Organ Result 64.8 el Range Orga Result	ics (DRO) (Qualifier nics (DRO) Qualifier	RL 50.0 (GC) RL	Unit mg/Kg Unit		Prepared	11/28/22 11:40	1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	I Range Organ 64.8 el Range Orga Result <50.0 64.8	ics (DRO) (Qualifier nics (DRO) Qualifier U *1	RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/23/22 15:04 11/23/22 15:04	Analyzed 11/24/22 00:00 11/24/22 00:00	1 Dil Fac 1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	I Range Organ Result 64.8 el Range Orga Result <50.0	ics (DRO) (Qualifier nics (DRO) Qualifier U *1	RL 50.0 (GC) RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 11/23/22 15:04	Analyzed 11/24/22 00:00	1 Dil Fac 1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	I Range Organ 64.8 el Range Orga Result <50.0 64.8	ics (DRO) (Qualifier nics (DRO) Qualifier U *1	RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/23/22 15:04 11/23/22 15:04	Analyzed 11/24/22 00:00 11/24/22 00:00	1 Dil Fac 1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	I Range Organ Result 64.8 el Range Orga Result <50.0 64.8 <50.0	ics (DRO) (Qualifier nics (DRO) Qualifier U *1	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/23/22 15:04 11/23/22 15:04 11/23/22 15:04	Analyzed 11/28/22 11:40 Analyzed 11/24/22 00:00 11/24/22 00:00 11/24/22 00:00	1 Dil Fac 1 1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	I Range Organ Result 64.8 el Range Orga Result <50.0 64.8 <50.0 %Recovery 111	ics (DRO) (Qualifier nics (DRO) Qualifier U *1	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/23/22 15:04 11/23/22 15:04 11/23/22 15:04 Prepared	Analyzed 11/28/22 11:40 Analyzed 11/24/22 00:00 11/24/22 00:00 11/24/22 00:00 Analyzed	1 Dil Fac 1 1
Method: SW846 8015 NM - Diesel Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	I Range Organ Result 64.8 el Range Orga Result <50.0 64.8 <50.0 %Recovery 111 133	ics (DRO) (Qualifier nics (DRO) Qualifier U*1 U Qualifier S1+	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 50.0 50.0 70.130 70.130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/23/22 15:04 11/23/22 15:04 11/23/22 15:04 Prepared 11/23/22 15:04	Analyzed 11/28/22 11:40 Analyzed 11/24/22 00:00 11/24/22 00:00 11/24/22 00:00 Analyzed 11/24/22 00:00	1 Dil Fac 1 1
Method: SW846 8015 NM - Diesel Analyte	I Range Organ Result 64.8 el Range Orga Result <50.0 64.8 <50.0 %Recovery 111 133 , Ion Chromato	ics (DRO) (Qualifier nics (DRO) Qualifier U*1 U Qualifier S1+	RL 50.0 (GC) RL 50.0 50.0 50.0 50.0 50.0 50.0 70.130 70.130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/23/22 15:04 11/23/22 15:04 11/23/22 15:04 Prepared 11/23/22 15:04	Analyzed 11/28/22 11:40 Analyzed 11/24/22 00:00 11/24/22 00:00 11/24/22 00:00 Analyzed 11/24/22 00:00	1 Dil Fac 1 1

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Lab Sample ID: 890-3528-1 Matrix: Solid

5

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

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-21941-A-1-D MS	Matrix Spike	76	105		
880-21941-A-1-E MSD	Matrix Spike Duplicate	69 S1-	102		6
890-3528-1	SS03	65 S1-	109		
LCS 880-40466/1-A	Lab Control Sample	84	111		
LCSD 880-40466/2-A	Lab Control Sample Dup	82	94		
MB 880-40412/5-A	Method Blank	74	110		8
MB 880-40466/5-A	Method Blank	73	97		
Surrogate Legend					9

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3525-A-1-C MS	Matrix Spike	145 S1+	159 S1+	
890-3525-A-1-D MSD	Matrix Spike Duplicate	147 S1+	164 S1+	
890-3528-1	SS03	111	133 S1+	
LCS 880-40343/2-A	Lab Control Sample	175 S1+	217 S1+	
LCSD 880-40343/3-A	Lab Control Sample Dup	200 S1+	240 S1+	
MB 880-40343/1-A	Method Blank	155 S1+	184 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-3528-1

Page 80 of 244

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40412 Matrix: Solid	2/5-A								Client Sa	mple ID: Metho	
Analysis Batch: 40361										Prep Type: Prep Batc	
Analysis Batch. 40001	М	в мв								Thep Date	11. 40412
Analyte		It Qualifier	RL		Unit		D	Р	repared	Analyzed	Dil Fac
Benzene	<0.0020	0 U	0.00200		mg/K	g			8/22 10:23	11/28/22 12:29	1
Toluene	<0.0020		0.00200		mg/K	-			8/22 10:23	11/28/22 12:29	1
Ethylbenzene	<0.0020		0.00200		mg/K	-			8/22 10:23	11/28/22 12:29	
m-Xylene & p-Xylene	<0.0040		0.00400		mg/K				8/22 10:23	11/28/22 12:29	
o-Xylene	<0.0020		0.00200		mg/K	-			8/22 10:23	11/28/22 12:29	1
Xylenes, Total	<0.0040		0.00400		mg/K				8/22 10:23	11/28/22 12:29	
						3					
•	M							_			
Surrogate	%Recover		Limits				-		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7		70 - 130						28/22 10:23	11/28/22 12:29	1
1,4-Difluorobenzene (Surr)	11	0	70 - 130					11/2	28/22 10:23	11/28/22 12:29	1
Lab Sample ID: MB 880-4046	6/ 5-A								Client Sa	mple ID: Metho	od Blank
Matrix: Solid										Prep Type:	
Analysis Batch: 40361										Prep Batc	
Analysis Batch. 40001	м	в мв								Thep Bate	
Analyte	Resu		RL		Unit		D	Б	repared	Analyzed	Dil Fac
Benzene	<0.0020		0.00200		mg/K		<u> </u>		8/22 12:53	11/29/22 00:05	
Toluene	<0.0020		0.00200		mg/K	-			8/22 12:53	11/29/22 00:05	1
Ethylbenzene	<0.0020		0.00200		mg/K	-			8/22 12:53	11/29/22 00:05	1
m-Xylene & p-Xylene	<0.0020		0.00200		mg/K				8/22 12:53	11/29/22 00:05	
	<0.0040		0.00400						8/22 12:53	11/29/22 00:05	1
o-Xylene	<0.0020		0.00200		mg/K	-			8/22 12:53	11/29/22 00:05	1
Xylenes, Total	<0.0040	0 0	0.00400		mg/K	.y		11/2	.0/22 12.33	11/29/22 00.05	
	М	B MB									
Surrogate	%Recover	y Qualifier	Limits					P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	7	3	70 - 130					11/2	28/22 12:53	11/29/22 00:05	1
1,4-Difluorobenzene (Surr)	9	7	70 - 130					11/2	8/22 12:53	11/29/22 00:05	1
- Lab Sample ID: LCS 880-4046	S6/1_A						C	liont	Sample	D: Lab Control	l Sampla
Matrix: Solid	00/1-A							ilein	Sample	Prep Type:	
Analysis Batch: 40361			Califo	1.00	LCS					Prep Batc	11. 40400
A			Spike			11		_	0/ D	%Rec	
Analyte			Added		Qualifier	Unit		<u>D</u>	%Rec	Limits	
Benzene			0.100	0.1040		mg/Kg			104	70 - 130	
Toluene			0.100	0.1006		mg/Kg			101	70 - 130	
Ethylbenzene			0.100	0.09217		mg/Kg			92	70 - 130	
m-Xylene & p-Xylene			0.200	0.1598		mg/Kg			80	70 - 130	
o-Xylene			0.100	0.07997		mg/Kg			80	70 - 130	
	LCS LC	s									
Surrogate	%Recovery Qu	alifier	Limits								
4-Bromofluorobenzene (Surr)	84		70 - 130								
1,4-Difluorobenzene (Surr)	111		70 - 130								
-											
Lab Sample ID: LCSD 880-404	466/2-A					CI	ient	Sam	nple ID: L	ab Control San	
Matrix: Solid										Prep Type:	Total/NA
Analysia Potaby 40264										Prep Batc	h: 40466
Analysis Batch: 40361											
Analysis Batch. 40301			Spike	LCSD	LCSD					%Rec	RPD

Job ID: 890-3528-1 SDG: 03E1558142

5 7 8

Benzene

0.08207

mg/Kg

82

70 - 130

0.100

35

24

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3528-1 SDG: 03E1558142

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

<0.00200 UF1

<0.00200 UF1

<0.00401 UF1

<0.00200 UF1

76

105

MS MS %Recovery Qualifier

Lab Sample ID: LCSD 880-4	mple ID: LCSD 880-40466/2-A									Client Sample ID: Lab Control Sample Dup							
Matrix: Solid							Prep 1	Гуре: То	tal/NA								
Analysis Batch: 40361									Prep	Batch:	40466						
			Spike	LCSD	LCSD				%Rec		RPD						
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit						
Toluene			0.100	0.1103		mg/Kg		110	70 - 130	9	35						
Ethylbenzene			0.100	0.1123		mg/Kg		112	70 - 130	20	35						
m-Xylene & p-Xylene			0.200	0.2024		mg/Kg		101	70 - 130	24	35						
o-Xylene			0.100	0.09966		mg/Kg		100	70 - 130	22	35						
	LCSD	LCSD															
Surrogate	%Recovery	Qualifier	Limits														
4-Bromofluorobenzene (Surr)	82		70 - 130														
1,4-Difluorobenzene (Surr)	94		70 - 130														
- Lab Sample ID: 880-21941-/	A-1-D MS							Client	Sample ID	: Matrix	Spike						
Matrix: Solid									Prep 1	Гуре: То	tal/NA						
Analysis Batch: 40361									Prep	Batch:	40466						
	Sample	Sample	Spike	MS	MS				%Rec								
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits								
Benzene	<0.00200	U F1	0.0996	0.03139	F1	mg/Kg		32	70 - 130								

0.02826 F1

0.02733 F1

0.04741 F1

0.02598 F1

mg/Kg

mg/Kg

mg/Kg

mg/Kg

28

27

24

26

70 - 130

70 - 130

70 - 130

70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 40466

0.0996

0.0996

0.199

0.0996

Limits

70 - 130

70 - 130

70 - 130

Matrix:	Solid	

Lab Sample ID: 880-21941-A-1-E MSD

Analys	is	Batch:	40361

1,4-Difluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Toluene

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0996	0.03831	F1	mg/Kg		38	70 - 130	20	35
Toluene	<0.00200	U F1	0.0996	0.02919	F1	mg/Kg		29	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.0996	0.02670	F1	mg/Kg		27	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.04101	F1	mg/Kg		21	70 - 130	14	35
o-Xylene	<0.00200	U F1	0.0996	0.02211	F1	mg/Kg		22	70 - 130	16	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130								

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

102

Lab Sample ID: MB 880-40343/1-A Matrix: Solid Analysis Batch: 40262	МВ	МВ				Client Sa	mple ID: Metho Prep Type: ⁻ Prep Batcl	Total/NA
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/23/22 15:04	11/23/22 20:46	1
(GRO)-C6-C10								

Lab Sample ID: MB 880-40343/1-A

Matrix: Solid

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

C10-C28)

Matrix: Solid

Analysis Batch: 40262

Gasoline Range Organics (GRO)-C6-C10

Diesel Range Organics (Over

Analysis Batch: 40262

Diesel Range Organics (Over

Oll Range Organics (Over C28-C36)

Lab Sample ID: LCS 880-40343/2-A

QC Sample Results

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Method: 8015B NM - Diesel Range Organics (DR

MB MB

<50.0 U MB MB %Recovery Qualifier

155 S1+

184 S1+

Result Qualifier <50.0 U

,									
							Job ID: 890		
							SDG: 03E	1558142	
RO) (GC) (C	ontinue	ed)							3
						Client Sa	ample ID: Metho Prep Type: ⁻		4
							Prep Batcl	n: 40343	5
R	L	Unit		D	P	repared	Analyzed	Dil Fac	5
50.	0	mg/K	g	_	11/2	3/22 15:04	11/23/22 20:46	1	6
50.	0	mg/K	g		11/2	3/22 15:04	11/23/22 20:46	1	7
Limits	_				P	repared	Analyzed	Dil Fac	8
70 - 130					11/2	3/22 15:04	11/23/22 20:46	1	
70 - 130					11/2	3/22 15:04	11/23/22 20:46	1	9
				С	lient	Sample	ID: Lab Control		10
							Prep Type: 7	Total/NA	
							Prep Batcl	า: 40343	
Spike	LCS	LCS					%Rec		11
Added	Result	Qualifier	Unit		D	%Rec	Limits		
1000	949.0		mg/Kg			95	70 - 130		12
1000	1030		mg/Kg			103	70 - 130		13
Limits									14
70 130									

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	175	S1+	70 - 130
o-Terphenyl	217	S1+	70 - 130

Lab Sample ID: LCSD 880-40343/3-A Matrix: Solid Analysis Batch: 40262				Clier	nt Sam	ple ID:	Prep 1	ol Sample Du Type: Total/N o Batch: 4034			
	Spike	LCSD	LCSD				%Rec		RPD		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Gasoline Range Organics (GRO)-C6-C10	1000	1193	*1	mg/Kg		119	70 - 130	23	20		
Diesel Range Organics (Over C10-C28)	1000	1169		mg/Kg		117	70 - 130	13	20		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	200	S1+	70 - 130
o-Terphenyl	240	S1+	70 - 130

Lab Sample ID: 890-3525-A-1-C MS
Matrix: Solid
Associate Details (0000

Analysis Batch: 40262									Prej	p Batch: 403	343
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1143		mg/Kg		114	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1303		mg/Kg		130	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

Page 83 of 244

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

Matrix: Solid	1-D MSD					CI	ient Sa	ample ID): Matrix Sp		
										Type: To Retable	
Analysis Batch: 40262	Sample	Sample	Spike	Men	MSD				%Rec	Batch:	40343 RPD
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics				1103	Quaimer	mg/Kg			70 - 130	4	20
(GRO)-C6-C10	\$40.0	0 1	330	1105		iiig/itg			70 - 150	-	20
Diesel Range Organics (Over	<49.9	U F1	998	1360	F1	mg/Kg		136	70 - 130	4	20
C10-C28)						00					
	MSD	MSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl		S1+	70 - 130 70 - 130								
o-reiphenyi	104	371	70 - 750								
lethod: 300.0 - Anions,	Ion Chromat	ography									
Lab Sample ID: MB 880-400	10/1-A							Client S	ample ID:		
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 40325											
		MB MB									
Analyte		esult Qualifier		RL	Unit		<u>Р</u>	repared	Analyz		Dil Fac
Chloride	<	5.00 U	ł	5.00	mg/K	g			11/23/22	19:11	
Matrix: Solid									Drop	Type: C	aluble
			Spike	LCS	LCS					Type: S	oluble
Analysis Batch: 40325			Spike Added		LCS Qualifier	Unit	D	%Rec	%Rec	Type: S	oluble
Analysis Batch: 40325			Spike Added 250		LCS Qualifier	Unit mg/Kg	D	%Rec 98		Type: So	oluble
Analysis Batch: 40325 Analyte Chloride	 0010/3-A		Added	Result		mg/Kg		98	%Rec Limits 90 - 110		
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4	 0010/3-A		Added	Result		mg/Kg		98	%Rec Limits 90 - 110		e Dup
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid	 0010/3-A		Added	Result		mg/Kg		98	%Rec Limits 90 - 110		e Dup
Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325	 0010/3-A	=	Added	Result 243.9		mg/Kg		98	%Rec Limits 90 - 110 Lab Contro Prep		e Dup oluble
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325	 0010/3-A		Added 250 Spike	Result 243.9 LCSD	Qualifier	mg/Kg Clie	nt Sam	98 98	%Rec Limits 90 - 110 Lab Contro Prep %Rec	I Sampl Type: S	e Dup oluble RPE
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte	 0010/3-A 		Added	Result 243.9 LCSD	Qualifier	mg/Kg		98	%Rec Limits 90 - 110 Lab Contro Prep		e Dup oluble RPI Limi
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte	0010/3-A		Added 250 Spike Added	Result 243.9 LCSD Result	Qualifier	mg/Kg Clie Unit	nt Sam	98 aple ID: I %Rec	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	I Sampl Type: Si RPD	e Dup oluble RPI Limi
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride			Added 250 Spike Added	Result 243.9 LCSD Result	Qualifier	mg/Kg Clie Unit	nt Sam	98 aple ID: I %Rec 99	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits	I Sampl Type: So 	e Dup oluble RPI Limi 20
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A-			Added 250 Spike Added	Result 243.9 LCSD Result	Qualifier	mg/Kg Clie Unit	nt Sam	98 aple ID: I %Rec 99	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	I Sampl Type: So 	e Dup oluble RPI Limi 20 Spike
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid			Added 250 Spike Added	Result 243.9 LCSD Result	Qualifier	mg/Kg Clie Unit	nt Sam	98 aple ID: I %Rec 99	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	ol Sampl Type: So 	e Dup oluble RPI Limi 20 Spike
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid			Added 250 Spike Added	Result 243.9 LCSD Result 246.3	Qualifier	mg/Kg Clie Unit	nt Sam	98 aple ID: I %Rec 99	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID	ol Sampl Type: So 	e Dup oluble RPE Limi 20 Spike
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325		Sample Qualifier	Added 250 Spike Added 250	Result 243.9 LCSD Result 246.3 MS	Qualifier LCSD Qualifier	mg/Kg Clie Unit	nt Sam	98 aple ID: I %Rec 99	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep	ol Sampl Type: So 	e Dup oluble RPI Limi 20 Spike
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325 Analyte		Qualifier	Added 250 Spike Added 250 Spike	Result 243.9 LCSD Result 246.3 MS	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Clie Unit mg/Kg	 	98 aple ID: I %Rec 99 Client	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec	ol Sampl Type: So 	e Dup oluble RPI Limi 20 Spike
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A-	-1-B MS Sample Result 458	Qualifier	Added 250 Spike Added 250 Spike Added	Result 243.9 LCSD Result 246.3 MS Result	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Clie Unit mg/Kg	D	98 pple ID: I %Rec 99 Client %Rec 85	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	RPD 1 : Matrix Type: So 0 : So 1 : Matrix Type: So	e Duj olubi RPI Lim 2 Spiko olubi
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid	-1-B MS Sample Result 458	Qualifier	Added 250 Spike Added 250 Spike Added	Result 243.9 LCSD Result 246.3 MS Result	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Clie Unit mg/Kg	D	98 pple ID: I %Rec 99 Client %Rec 85	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110	I Sampl Type: So <u>RPD</u> 1 : Matrix Type: So	e Dup oluble RPE Limi 20 Spike oluble
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid	-1-B MS Sample Result 458 -1-C MSD	Qualifier F1	Added 250 Spike Added 250 Spike Added 250	Result 243.9 LCSD Result 246.3 MS Result 669.7	Qualifier LCSD Qualifier MS Qualifier F1	mg/Kg Clie Unit mg/Kg	D	98 pple ID: I %Rec 99 Client %Rec 85	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 0: Matrix Sp Prep	RPD 1 : Matrix Type: So 0 : So 1 : Matrix Type: So	e Dup oluble RPE Limi 20 Spike oluble
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325	-1-B MS Sample Result 458 -1-C MSD Sample	Qualifier F1	Added 250 Spike Added 250 Spike 250	Result 243.9 LCSD Result 246.3 MS Result 669.7	Qualifier LCSD Qualifier MS Qualifier F1	mg/Kg Clie Unit mg/Kg Cl	D D D	98 ple ID: I %Rec 99 Client %Rec 85 ample ID	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 O: Matrix Sp Prep %Rec	I Sampl Type: So 	e Dup oluble RPD Limit 20 Spike oluble oluble RPD
Analysis Batch: 40325 Analyte Chloride Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid	-1-B MS Sample Result 458 -1-C MSD Sample	Qualifier F1 Sample Qualifier	Added 250 Spike Added 250 Spike Added 250	Result 243.9 LCSD Result 246.3 MS Result 669.7	Qualifier LCSD Qualifier MS Qualifier F1	mg/Kg Clie Unit mg/Kg	D	98 pple ID: I %Rec 99 Client %Rec 85	%Rec Limits 90 - 110 Lab Contro Prep %Rec Limits 90 - 110 Sample ID Prep %Rec Limits 90 - 110 0: Matrix Sp Prep	I Sampl Type: So <u>RPD</u> 1 : Matrix Type: So 	e Dup oluble RPC Limit 20 Spike oluble

Eurofins Carlsbad

QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Page 85 of 244

5

Job ID: 890-3528-1 SDG: 03E1558142

GC VOA

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Analysis Batch: 40361

_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3528-1	SS03	Total/NA	Solid	8021B	40466
MB 880-40412/5-A	Method Blank	Total/NA	Solid	8021B	40412
MB 880-40466/5-A	Method Blank	Total/NA	Solid	8021B	40466
CS 880-40466/1-A	Lab Control Sample	Total/NA	Solid	8021B	40466
CSD 880-40466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40466
80-21941-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	40466
80-21941-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40466
ep Batch: 40412					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
1B 880-40412/5-A	Method Blank	Total/NA	Solid	5035	
.ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
					Prep Batch
90-3528-1	SS03	Total/NA	Solid	5035	
	Method Blank	Total/NA	Solid	5035	
	Method Blank Lab Control Sample	Total/NA Total/NA	Solid Solid		
CS 880-40466/1-A				5035	
CS 880-40466/1-A CSD 880-40466/2-A	Lab Control Sample	Total/NA	Solid	5035 5035	
.CS 880-40466/1-A .CSD 880-40466/2-A 880-21941-A-1-D MS	Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA	Solid Solid	5035 5035 5035	
LCS 880-40466/1-A LCSD 880-40466/2-A 880-21941-A-1-D MS 880-21941-A-1-E MSD	Lab Control Sample Lab Control Sample Dup Matrix Spike	Total/NA Total/NA Total/NA	Solid Solid Solid	5035 5035 5035 5035	
MB 880-40466/5-A LCS 880-40466/1-A LCSD 880-40466/2-A 380-21941-A-1-D MS 380-21941-A-1-E MSD nalysis Batch: 40567 Lab Sample ID	Lab Control Sample Lab Control Sample Dup Matrix Spike	Total/NA Total/NA Total/NA	Solid Solid Solid	5035 5035 5035 5035	Prep Batch

GC Semi VOA

Analysis Batch: 40262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3528-1	SS03	Total/NA	Solid	8015B NM	40343
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015B NM	40343
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40343
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40343
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	40343
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40343

Prep Batch: 40343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3528-1	SS03	Total/NA	Solid	8015NM Prep	
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3528-1	SS03	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3528-1 SDG: 03E1558142

HPLC/IC

Leach Batch: 40010

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3528-1	SS03	Soluble	Solid	DI Leach	
/IB 880-40010/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-40010/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
90-3526-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3526-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
nalysis Batch: 40325					
ab Sample ID.	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
90-3528-1	SS03	Soluble	Solid	300.0	40010
/IB 880-40010/1-A	Method Blank	Soluble	Solid	300.0	40010
.CS 880-40010/2-A	Lab Control Sample	Soluble	Solid	300.0	40010
.CSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40010
890-3526-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	40010
90-3526-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40010

Eas Gampio IB		1100 1300	matrix	mounou	i top Baton	
890-3528-1	SS03	Soluble	Solid	300.0	40010	
MB 880-40010/1-A	Method Blank	Soluble	Solid	300.0	40010	
LCS 880-40010/2-A	Lab Control Sample	Soluble	Solid	300.0	40010	
LCSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40010	
890-3526-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	40010	
890-3526-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40010	

Page 86 of 244

Client Sample ID: SS03 Date Collected: 11/17/22 12:45

Date Received: 11/18/22 08:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	40466	11/28/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40361	11/29/22 01:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40567	11/29/22 09:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			40447	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	40343	11/23/22 15:04	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/24/22 00:00	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	40010	11/20/22 12:21	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40325	11/23/22 22:02	СН	EET MID

Laboratory References:

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

Prin 800-3258-1

Page 87 of 244

Job ID: 890-3528-1 SDG: 03E1558142

Lab Sample ID: 890-3528-1

Matrix: Solid

Accreditation/Certification Summary

Page 88 of 244

Client: Ensolum Project/Site: PLU 21 B		Ъ.		Job ID: 890- SDG: 03E1	
				3DG. 03E1	
Laboratory: Eurof		ry were covered under each acc	reditation (partification balance		
	analytes for this laborator	ry were covered under each acc			
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-22-24	06-30-23	5
The following analytes	are included in this repo	rt, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not of					
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					3
					10
					13

Eurofins Carlsbad

.

Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3528-1 SDG: 03E1558142

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

Protocol References:

Client: Ensolum

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3528-1 SDG: 03E1558142

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-3528-1	SS03	Solid	11/17/22 12:45	11/18/22 08:20	0.5	4
						5
						8
						9
						12
						13

.

🛟 eurofins		Environment Testing	ting	Hous	ton, TX (28: I, TX (432) 7	t) 240-4200. [704-5440, San	Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	902-0300) 509-3334		Work Order No:	ler No:	
	Xenco	20		EL Pa	so, TX (915) 585-3443, Lu	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	794-1296				
				Hobbs	s, NM (575)	392-7550, Ca	Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199	988-3199	1	www.xenco.com	ico.com Page	e of J
Project Manager:	Kalei Jennings			Bill to: (if different)		Garrett Green				Work	ğ	nts
-	Ensolum			Company Name:		XTO Energy			Program	Program: UST/PST PRP Brownfields RRC] Brownfields []] RRC 🗌 Superfund 🗌
	3122 National Parks Hwy	ks Hwy		Address:		3104 E. Green St	St.		State of	State of Project:		
e ZIP:	Carlsbad, NM 88220	20		City, State ZIP:	Car	Carlsbad, NM 88220	8220		Reportin	Reporting: Level II 🗍 Level III 🗍 PST/UST 🗍 TRRP 🗍		
	303-887-2946		Email:	Email: Garrett.Green@ExxonMobil.com	@Exxon\	Aobil.com			Delivera	Deliverables: EDD	ADaPT	Other:
Project Name:	PLU 21 Brushy Draw 125H	y Draw 125H	Jum	Jurn Around				ANALYSIS R	REQUEST		Pre	Preservative Codes
Project Number:	03E1558142	58142	Routine	Rush	Pres. Code						None: NO	DI Water: H ₂ O
Project Location:			Due Date:								Cool: Cool	ool MeOH: Me
Sampler's Name:	Connor Whitman	Vhitman	TAT starts the	TAT starts the day received by							HCL: HC	
PO#:			the lab, if rece	the lab, if received by 4:30pm	rs		1				H ₂ SO ₄ : H ₂	12 NaOH: Na
SAMPLE RECEIPT	PT Temp Blank:	K: Res No	Wet Ice:	Red No	nete						H ₃ PO ₄ HP	dF
Samples Received Intact:		구	D	11m-00							NaHSO4: NABIS	NABIS
Cooler Custody Seals:	Yes No	MA Correction Factor:	ictor:	-0.J							Na ₂ S ₂ O ₃ : NaSO ₃	NaSO3
Sample Custody Seals:	Yes No	WA Temperature Reading:	Reading:	4.4	S (E			890-3528 (28 Chain of Custody	tody	Zn Aceta	Zn Acetate+NaUH: Zn
Total Containers:		Corrected Temperature:	mperature:	4.1		015		-	-		Nacity	
Sample Identification		Matrix Date Sampled	Time Sampled	Depth Comp	Cont CHLOF	TPH (8 BTEX (Sa	Sample Comments
503		S 11/17/22	54:21	is a	- \	1					Incident ID:	t ID:
11				-	_						nAPP2229145683	15683
	/										Cost Center:	enter:
	/											1666421001
		/		_							AFE:	
			/									
				/								
						A						
				-			4		_	_		
Total 200.7 / 6010	10 200.8 / 6020:		8RCRA 13PPM	M Texas 11	AI Sb As	s Ba Be B	Cd Ca Cr	Co Cu Fe P	Pb Mg Mn	Mn Mo Ni K Se Ag	SiO ₂ Na Sr Ti	Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	nd Metal(s) to be a	nalyzed	TCLP / SP	TCLP / SPLP 6010: 8RCRA	CRA Sb	Sb As Ba Be	8	Cr Co Cu Pb Mn N	Mo Ni Se Ag TI U		Hg: 1631 / 245.1 / 7470 / 7471	7470 / 7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco, will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Eurofins Xenco, A minimum charce of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated of \$25.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated of \$25.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated to Eurofins Xenco, but not analyzed.	ocument and relinquishr o will be liable only for th mum charge of \$85.00 w	nent of samples const e cost of samples and ill be applied to each p	itutes a valid purc shall not assume roject and a chan	hase order from cl any responsibility ge of \$5 for each s	lent company for any losse ample submi	/ to Eurofins Xe es or expenses tted to Eurofins	nco, its affiliates a incurred by the cli Xenco, but not an	and subcontractor ent if such losses alyzed. These ten	s. It assigns sta are due to circu ms will be enfor	indard terms and conditi imstances beyond the co ced unless previously ne	ions ntrol gotiated.	
Relinquished by: (Signature)	(Signature)	Receive	Received by: (Signature)	ıre)	Da	Date/Time	Relinqui	Relinquished by: (Signature)	nature)	Received by: (Signature)	Signature)	Date/Time
1 Cat	A	Ausonal	2a Si	wit	11/18	1 cepil	00					
З	1			0			4					
σ							6				72	Revised Date 08/25/2020 Rev. 2020.2

Received by OCD: 2/12/2025 1:55:23 PM

Page 91 of 244

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3528 List Number: 1 Creator: Clifton, Cloe

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

Job Number: 890-3528-1 SDG Number: 03E1558142

Eurofins Carlsbad Released to Imaging: 2/18/2025 11:05:31 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3528 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-3528-1 SDG Number: 03E1558142

List Source: Eurofins Midland List Creation: 11/21/22 08:46 AM Received by OCD: 2/12/2025 1:55:23 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 3/20/2023 9:01:51 AM Revision 1

JOB DESCRIPTION

PLU 21 BRUSHY DRAW 125H SDG NUMBER 03E1558142

JOB NUMBER

890-3529-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Received by OCD: 2/12/2025 1:55:23 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 3/20/2023 9:01:51 AM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3529-1

SDG: 03E1558142

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

Definitions/Glossary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

HPLC/IC

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

Glossary

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

3

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Job ID: 890-3529-1

SDG: 03E1558142

Case Narrative

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3529-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3529-1

REVISION

The report being provided is a revision of the original report sent on 11/29/2022. The report (revision 1) is being revised due to Per client email, correcting project name to match COC.

Report revision history

Receipt

The sample was received on 11/18/2022 8:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40466 and analytical batch 880-40361 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-21941-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-21941-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40343 and analytical batch 880-40262 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40343/2-A) and (LCSD 880-40343/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS02 (890-3529-1), (890-3525-A-1-B), (890-3525-A-1-C MS) and (890-3525-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-40343 and analytical batch 880-40262 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-40343 and analytical batch 880-40262 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40343 and analytical batch 880-40262 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Case Narrative

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3529-1 SDG: 03E1558142

Page 99 of 244

Job ID: 890-3529-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40010 and analytical batch 880-40325 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Client Sample ID: SS02 Date Collected: 11/17/22 12:40

Date Received: 11/18/22 08:20 Sample Depth: 0.5

Method: SW846 8021B - Vola Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/28/22 12:53	11/29/22 02:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/28/22 12:53	11/29/22 02:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/28/22 12:53	11/29/22 02:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/28/22 12:53	11/29/22 02:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/28/22 12:53	11/29/22 02:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/28/22 12:53	11/29/22 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130			11/28/22 12:53	11/29/22 02:16	1
1,4-Difluorobenzene (Surr)	103		70 - 130			11/28/22 12:53	11/29/22 02:16	1
Method: TAL SOP Total BTEX	- Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	mg/Kg			11/29/22 09:34	1
Method: SW846 8015 NM - Di Analyte	Result	Qualifier			<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/28/22 11:40	1
	Diesel Range	• Organics	(DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		11/23/22 15:04	11/24/22 00:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/23/22 15:04	11/24/22 00:21	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/23/22 15:04	11/24/22 00:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
			70 - 130			11/23/22 15:04	11/24/22 00:21	1
1-Chlorooctane	111		70 - 750				11/24/22 00.21	'
1-Chlorooctane o-Terphenyl		S1+	70 - 130			11/23/22 15:04	11/24/22 00:21	1
o-Terphenyl	134		70 - 130			11/23/22 15:04		1
	134 Ion Chroma		70 - 130	Unit	D	11/23/22 15:04 Prepared		1 Dil Fac

Page 100 of 244

Matrix: Solid

5

Job ID: 890-3529-1 SDG: 03E1558142

Lab Sample ID: 890-3529-1

Released to Imaging: 2/18/2025 11:05:31 AM

Surrogate Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

-			Perce	nt Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-21941-A-1-D MS	Matrix Spike	76	105		_
880-21941-A-1-E MSD	Matrix Spike Duplicate	69 S1-	102		6
890-3529-1	SS02	84	103		
LCS 880-40466/1-A	Lab Control Sample	84	111		
LCSD 880-40466/2-A	Lab Control Sample Dup	82	94		
MB 880-40412/5-A	Method Blank	74	110		8
MB 880-40466/5-A	Method Blank	73	97		0
Surrogate Legend					9

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

		Percent Surrogate Recovery (Acceptance Limits)	
	1CO1	OTPH1	
Lab Sample ID Client Sample ID	(70-130)	(70-130)	
890-3525-A-1-C MS Matrix Spike	145 S1+	159 S1+	
890-3525-A-1-D MSD Matrix Spike Duplicate	e 147 S1+	164 S1+	
890-3529-1 SS02	111	134 S1+	
LCS 880-40343/2-A Lab Control Sample	175 S1+	217 S1+	
LCSD 880-40343/3-A Lab Control Sample E	Dup 200 S1+	240 S1+	
MB 880-40343/1-A Method Blank	155 S1+	184 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-3529-1 SDG: 03E1558142

Page 101 of 244

Prep Type: Total/NA

Prep Type: Total/NA 5

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Lab Sample ID: MB 880-40412/5-A

Method: 8021B - Volatile Organic Compounds (GC)

						Prep Type: To	
MB	MR					Prep Batch	: 40412
		RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
<0.00200	U	0.00200	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
<0.00200	U	0.00200	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
<0.00400	U	0.00400	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
<0.00200	U	0.00200	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
<0.00400	U	0.00400	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
MB	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
74		70 - 130			11/28/22 10:23	11/28/22 12:29	1
110		70 - 130			11/28/22 10:23	11/28/22 12:29	1
66/5-A					Client Same	le ID: Method	Blank
MB	МВ						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 00:05	1
<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 00:05	1
<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 00:05	1
<0.00400	U	0.00400	mg/Kg		11/28/22 12:53	11/29/22 00:05	1
	 <0.00200 <0.00200 <0.00200 <0.00400 <0.00400 <0.00400 <i>%Recovery</i> 74 110 66/5-A MB Result <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 	Result Qualifier <0.00200	Result Qualifier RL <0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	MB MB Result Qualifier RL Unit D Prepared Analyzed <0.00200

0.00200

mg/Kg

mg/Kg

Xylenes, Total	<0.00400	U	0.00400
	MB	МВ	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	73		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

<0.00200 U

Lab Sample ID: LCS 880-40466/1-A Matrix: Solid Analysis Batch: 40361

o-Xylene

Analysis Batch: 40361							Prep Ba	tch: 40466
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1040		mg/Kg		104	70 - 130	
Toluene	0.100	0.1006		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.09217		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1598		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.07997		mg/Kg		80	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-40466/2-A Matrix: Solid	Client Sample ID: Lab Control Sample Prep Type: Tota								
Analysis Batch: 40361	Spike	LCSD	LCSD				Prep E %Rec	Batch: 4	40466 RPD
Analyte	Added 0.100	Result 0.08207	Qualifier	Unit mg/Kg	D	%Rec 82	Limits 70 - 130	RPD 24	Limit 35

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SDG: 03E1558142

Client Sample ID: Method Blank

11/28/22 12:53 11/29/22 00:05

11/28/22 12:53 11/29/22 00:05

11/28/22 12:53 11/29/22 00:05

11/28/22 12:53 11/29/22 00:05

Client Sample ID: Lab Control Sample

Analyzed

Prep Type: Total/NA

Prepared

Job ID: 890-3529-1

5 6 7

		1				
		1				
		1				
		1				
		1				

1

1

1

Dil Fac

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

Lab Sample ID: LCSD 880-40466/2-A Matrix: Solid Analysis Batch: 40361			Client Sa	nple	ID: Lat	Control S Prep Ty Prep E	pe: Tot	al/NA	
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1103		mg/Kg		110	70 - 130	9	35
Ethylbenzene	0.100	0.1123		mg/Kg		112	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.2024		mg/Kg		101	70 - 130	24	35
o-Xylene	0.100	0.09966		mg/Kg		100	70 - 130	22	35
LCSD LCSD									

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-21941-A-1-D MS Matrix: Solid Analysis Batch: 40361

Analysis Batch: 40361									Prep Batch: 40466
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U F1	0.0996	0.03139	F1	mg/Kg		32	70 - 130
Toluene	<0.00200	U F1	0.0996	0.02826	F1	mg/Kg		28	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.02733	F1	mg/Kg		27	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.04741	F1	mg/Kg		24	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.02598	F1	mg/Kg		26	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-21941-A-1-E MSD Matrix: Solid Analysis Batch: 40361

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00200	U F1	0.0996	0.03831	F1	mg/Kg		38	70 - 130	20	35
Toluene	<0.00200	U F1	0.0996	0.02919	F1	mg/Kg		29	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.0996	0.02670	F1	mg/Kg		27	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.04101	F1	mg/Kg		21	70 - 130	14	35
o-Xylene	<0.00200	U F1	0.0996	0.02211	F1	mg/Kg		22	70 - 130	16	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130								

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

102

Lab Sample ID: MB 880-40343/1-A Matrix: Solid Analysis Batch: 40262							le ID: Method Prep Type: To Prep Batch:	otal/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/22 15:04	11/23/22 20:46	1

70 - 130

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 40466

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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1,4-Difluorobenzene (Surr)

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

Lab Sample ID: MB 880-40343 Matrix: Solid Analysis Batch: 40262	3/1-A						le ID: Methoo Prep Type: To Prep Batch	otal/NA
		MB						
Analyte	Result	Qualifier		Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/k	g	11/23/22 15:04	11/23/22 20:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/k	g	11/23/22 15:04	11/23/22 20:46	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130			11/23/22 15:04	11/23/22 20:46	1
o-Terphenyl	184	S1+	70 - 130			11/23/22 15:04	11/23/22 20:46	1
Lab Sample ID: LCS 880-4034	3/2-A				Clien	t Sample ID:	Lab Control S	Sample
Matrix: Solid							Prep Type: To	
Analysis Batch: 40262			Spike	LCS LCS			Prep Batch %Rec	

Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics		1000	949.0		mg/Kg		95	70 - 130
(GRO)-C6-C10								
Diesel Range Organics (Over		1000	1030		mg/Kg		103	70 - 130
C10-C28)								
	LCS LCS							

	203	203	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	175	S1+	70 - 130
o-Terphenyl	217	S1+	70 - 130

Lab Sample ID: LCSD 880-40343/3-A Matrix: Solid Analysis Batch: 40262

Analysis Batch: 40262							Prep E	atch: 4	10343
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1193	*1	mg/Kg		119	70 - 130	23	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1169		mg/Kg		117	70 - 130	13	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	200	S1+	70 - 130
o-Terphenyl	240	S1+	70 - 130

Lab Sample ID: 890-3525-A-1-C MS Matrix: Solid

Analysis Batch: 40262									Prep I	Batch: 40343
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1143		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1303		mg/Kg		130	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

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Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Job ID: 890-3529-1 SDG: 03E1558142

Page 104 of 244

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

Lab Sample ID: 890-3525	-A-1-D MSD					Client	Samp	le ID: N	latrix Spil	ke Dup	licate
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 40262									Prep E	-	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	1103		mg/Kg		111	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1360	F1	mg/Kg		136	70 - 130	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	147	S1+	70 - 130								
o-Terphenyl	164	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-400	10/1-A						С	lie	nt Sam	ple ID: M	ethod	Blank
Matrix: Solid										Prep Ty	ype: So	oluble
Analysis Batch: 40325												
	Π	MB MB										
Analyte		ult Qualifier		RL	Unit		<u>D</u>	Pr	epared	Analyz		Dil Fac
Chloride	<5.	.00 U		5.00	mg/K	g				11/23/22	19:11	1
Lab Sample ID: LCS 880-400	010/2-A					Clie	ent S	San	nple ID	: Lab Cor	ntrol Sa	ample
Matrix: Solid										Prep Ty	ype: So	oluble
Analysis Batch: 40325												
			Spike	LCS	LCS					%Rec		
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Chloride			250	243.9		mg/Kg			98	90 - 110		
Lab Sample ID: LCSD 880-4 Matrix: Solid Analysis Batch: 40325	0010/3-A				C	Client S	amp	le l	ID: Lab	Control S Prep Ty		
-										··-		
			Spike	LCSD	LCSD					%Rec		RPD
			Spike Added	_	LCSD Qualifier	Unit		D	%Rec	%Rec Limits	RPD	RPD Limit
			•	_	Qualifier	Unit mg/Kg		<u>D</u>	%Rec 99		RPD	
Chloride Lab Sample ID: 890-3526-A-	1-B MS		Added	Result	Qualifier				99	Limits 90 - 110 mple ID: I	1 Matrix	Limit 20 Spike
Chloride Lab Sample ID: 890-3526-A- Matrix: Solid	1-B MS		Added	Result	Qualifier				99	Limits 90 - 110	1 Matrix	Limit 20 Spike
Chloride Lab Sample ID: 890-3526-A- Matrix: Solid			Added 250	Result 246.3	Qualifier				99	Limits 90 - 110 mple ID: I Prep Ty	1 Matrix	Limit 20 Spike
Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325	Sample S	-	Added 250 Spike	Result 246.3 MS	Qualifier MS	mg/Kg		Cli	99 ent Sa	Limits 90 - 110 mple ID: I Prep Ty %Rec	1 Matrix	Limit 20 Spike
Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325 Analyte	Sample S Result (Qualifier	Added 250 Spike Added	Result 246.3 MS Result	Qualifier MS Qualifier	mg/Kg Unit		Cli	99 ent Sa %Rec	Limits 90 - 110 mple ID: I Prep Ty %Rec Limits	1 Matrix	Limit 20 Spike
Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325 Analyte	Sample S	Qualifier	Added 250 Spike	Result 246.3 MS	Qualifier MS Qualifier	mg/Kg		Cli	99 ent Sa	Limits 90 - 110 mple ID: I Prep Ty %Rec	1 Matrix	Limit 20 Spike
Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325 Analyte Chloride	Sample S Result 0 458 F	Qualifier	Added 250 Spike Added	Result 246.3 MS Result	Qualifier MS Qualifier	mg/Kg Unit mg/Kg		Cli	99 ent Sa %Rec 85	Limits 90 - 110 mple ID: I Prep Ty %Rec Limits	1 Matrix ype: So	Limit 20 Spike oluble
Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A-	Sample S Result 0 458 F	Qualifier	Added 250 Spike Added	Result 246.3 MS Result	Qualifier MS Qualifier	mg/Kg Unit mg/Kg		Cli	99 ent Sa %Rec 85	Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110	Matrix ype: So	Limit 20 Spike oluble
Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid	Sample S Result 0 458 F	Qualifier	Added 250 Spike Added	Result 246.3 MS Result	Qualifier MS Qualifier	mg/Kg Unit mg/Kg		Cli	99 ent Sa %Rec 85	Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110 latrix Spil	Matrix ype: So	Limit 20 Spike oluble
Chloride Lab Sample ID: 890-3526-A- Matrix: Solid Analysis Batch: 40325	Sample S Result 0 458 F	Qualifier	Added 250 Spike Added	Result 246.3 MS Result	Qualifier MS Qualifier F1	mg/Kg Unit mg/Kg		Cli	99 ent Sa %Rec 85	Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110 latrix Spil	Matrix ype: So	Limit 20 Spike oluble
Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-A- Matrix: Solid	Sample S Result 0 458 F	Qualifier =1 Sample Qualifier	Added 250 Spike Added 250	Result 246.3 MS Result 669.7 MSD	Qualifier MS Qualifier F1 MSD Qualifier	mg/Kg Unit mg/Kg	: San	Cli D npl	99 ent Sa %Rec 85	Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110 latrix Spil Prep Ty	Matrix ype: So	Limit 20 Spike oluble

Eurofins Carlsbad

Job ID: 890-3529-1

SDG: 03E1558142

3/20/2023 (Rev. 1)

QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

GC VOA

Analysis Batch: 40361

Job ID: 890-3529-1 SDG: 03E1558142

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-3529-1	SS02	Total/NA	Solid	8021B	40466
MB 880-40412/5-A	Method Blank	Total/NA	Solid	8021B	40412
MB 880-40466/5-A	Method Blank	Total/NA	Solid	8021B	40466
LCS 880-40466/1-A	Lab Control Sample	Total/NA	Solid	8021B	40466
LCSD 880-40466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40466
880-21941-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	40466
880-21941-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40466
rep Batch: 40412					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
		T. (0.11.1	5035	
MB 880-40412/5-A	Method Blank	Total/NA	Solid	5035	
	Method Blank	Iotai/NA	Solid	5035	
rep Batch: 40466	Method Blank Client Sample ID	Prep Type	Matrix	Method	Prep Batch
rep Batch: 40466 Lab Sample ID					Prep Batch
rep Batch: 40466 Lab Sample ID 890-3529-1	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
rep Batch: 40466 Lab Sample ID 890-3529-1 MB 880-40466/5-A	Client Sample ID SS02	Prep Type Total/NA	<u>Matrix</u> Solid	Method 5035	Prep Batch
rep Batch: 40466 Lab Sample ID 890-3529-1 MB 880-40466/5-A LCS 880-40466/1-A	Client Sample ID SS02 Method Blank	Prep Type Total/NA Total/NA	Matrix Solid Solid	Method 5035 5035	Prep Batch
Tep Batch: 40466 Lab Sample ID 890-3529-1 MB 880-40466/5-A LCS 880-40466/1-A LCSD 880-40466/2-A	Client Sample ID SS02 Method Blank Lab Control Sample	Prep Type Total/NA Total/NA Total/NA	Matrix Solid Solid Solid	Method 5035 5035 5035 5035	Prep Batch
MB 880-40412/5-A rep Batch: 40466 Lab Sample ID 890-3529-1 MB 880-40466/5-A LCS 880-40466/1-A LCSD 880-40466/2-A 880-21941-A-1-D MS 880-21941-A-1-E MSD	Client Sample ID SS02 Method Blank Lab Control Sample Lab Control Sample Dup	Prep Type Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid	Method 5035 5035 5035 5035 5035	Prep Batch
Image: Arep Batch: 40466 Lab Sample ID 890-3529-1 MB 880-40466/5-A LCS 880-40466/1-A LCSD 880-40466/2-A 880-21941-A-1-D MS	Client Sample ID SS02 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid	Method 5035 5035 5035 5035 5035 5035 5035	Prep Batch
Prep Batch: 40466 Lab Sample ID 890-3529-1 MB 880-40466/5-A LCS 880-40466/1-A LCSD 880-40466/1-A LCSD 880-40466/2-A 880-21941-A-1-D MS 880-21941-A-1-E MSD	Client Sample ID SS02 Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike Matrix Spike Duplicate	Prep Type Total/NA Total/NA Total/NA Total/NA Total/NA	Matrix Solid Solid Solid Solid Solid Solid	Method 5035 5035 5035 5035 5035 5035 5035	_ Prep Batch

GC Semi VOA

Analysis Batch: 40262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3529-1	SS02	Total/NA	Solid	8015B NM	40343
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015B NM	40343
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40343
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40343
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	40343
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40343

Prep Batch: 40343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3529-1	SS02	Total/NA	Solid	8015NM Prep	
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40448

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
890-3529-1	SS02	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

HPLC/IC

Leach Batch: 40010

.ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3529-1	SS02	Soluble	Solid	DI Leach	
MB 880-40010/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-40010/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3526-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3526-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	Client Sample ID SS02	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 40010
390-3529-1	•				
Lab Sample ID 390-3529-1 MB 880-40010/1-A LCS 880-40010/2-A	SS02 Method Blank Lab Control Sample	Soluble Soluble Soluble	Solid	300.0	40010
890-3529-1 MB 880-40010/1-A LCS 880-40010/2-A LCSD 880-40010/3-A	SS02 Method Blank Lab Control Sample Lab Control Sample Dup	Soluble Soluble Soluble Soluble	Solid Solid Solid Solid	300.0 300.0 300.0 300.0	40010 40010 40010 40010
890-3529-1 MB 880-40010/1-A LCS 880-40010/2-A	SS02 Method Blank Lab Control Sample	Soluble Soluble Soluble	Solid Solid Solid	300.0 300.0 300.0	40010 40010 40010

Lab Sample ID 890-3529-1	Client Sample ID SS02	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 40010
MB 880-40010/1-A	Method Blank	Soluble	Solid	300.0	40010
LCS 880-40010/2-A	Lab Control Sample	Soluble	Solid	300.0	40010
LCSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	40010
890-3526-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	40010
890-3526-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	40010

Job ID: 890-3529-1 SDG: 03E1558142

Page 107 of 244

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Client Sample ID: SS02 Date Collected: 11/17/22 12:40 Date Received: 11/18/22 08:20

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	40466	11/28/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40361	11/29/22 02:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40568	11/29/22 09:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			40448	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	40343	11/23/22 15:04	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	40262	11/24/22 00:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40010	11/20/22 12:21	СН	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	40325	11/23/22 22:26	СН	EET MID

Laboratory References:

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

Job ID: 890-3529-1 SDG: 03E1558142

Lab Sample ID: 890-3529-1

Matrix: Solid
Accreditation/Certification Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3529-1 SDG: 03E1558142

Laboratory: Eurofins Midland

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

uthority	Pr	ogram	Identification Number	Expiration Date
xas NELAP		T104704400-22-25	12-19-22	
The following an above			at partified by the governing outbority	This list as a single should be a family the
the agency does not o	•	ort, but the laboratory is n	or certified by the governing authority.	This list may include analytes for whic
• •	•	Matrix	Analyte	This list may include analytes for which
the agency does not o	ffer certification.			This list may include analytes for whic

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3529-1 SDG: 03E1558142

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Page 111 of 244

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3529-1
SDG: 03E1558142

Lab Sample ID Client Sample		Collected	Received	Depth
890-3529-1 SS02	Solid	11/17/22 12:40	11/18/22 08:20	0.5

Chain of Custory Work Order No: The Advance of the province of th
gain of Custody 281) 240-4200. Dallas TX (214) 902-4300 Work Ording 19 585-5443. Lubook, TX (210) 509-334 Work Ording 19 595-5443. Lubook, TX (210) 509-334 garrett Green Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St. 3104 E Green St. Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St. 3104 E Green St. Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St. 3104 E Green St. Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St. 3104 E Green St. Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St. 3104 E Green St. Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St. 3104 E Green St. Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St. 3104 E Green St. Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St. 3104 E Green St. Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St. 3104 E Green St. Inde E Green St. Inde E Green St. Inde E Green St. Inde E Green St.
Stody s. TX (214) 902-0300 nio, TX (210) 509-3334 A, TX (606) 794-1296 d. NM (575) 988-3199 AALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST Beyorting Level II Level II Level III Deliverables: EDD
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Brownfield Brownfield Brownfield Brownfield Brownfield Brownfield Coo Coo HCU Non Coo Coo Coo Coo Coo Coo Coo Coo Coo C

5

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3529 List Number: 1 Creator: Clifton, Cloe

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

Job Number: 890-3529-1 SDG Number: 03E1558142

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 2/18/2025 11:05:31 AM

Job Number: 890-3529-1 SDG Number: 03E1558142

List Source: Eurofins Midland

List Creation: 11/21/22 08:46 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3529 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 2/12/2025 1:55:23 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 3/20/2023 9:02:46 AM Revision 1

JOB DESCRIPTION

PLU 21 BRUSHY DRAW 125H SDG NUMBER 03E1558142

JOB NUMBER

890-3530-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Received by OCD: 2/12/2025 1:55:23 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 3/20/2023 9:02:46 AM Revision 1

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3530-1 SDG: 03E1558142

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	7
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

Definitions/Glossary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

C

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

HPLC/IC

U

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

Indicates the analyte was analyzed for but not detected.

Glossary

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

Page 118 of 244

Job ID: 890-3530-1

SDG: 03E1558142

Case Narrative

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3530-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3530-1

REVISION

The report being provided is a revision of the original report sent on 11/29/2022. The report (revision 1) is being revised due to Per client email, correcting project name to match COC.

Report revision history

Receipt

The sample was received on 11/18/2022 8:20 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

GC VOA

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40466 and analytical batch 880-40361 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-21941-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-21941-A-1-F). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-40343 and analytical batch 880-40262 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-40343/2-A) and (LCSD 880-40343/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-3525-A-1-B), (890-3525-A-1-C MS) and (890-3525-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS01 (890-3530-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-40343 and analytical batch 880-40262 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-40343 and analytical batch 880-40262 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-40343 and analytical batch 880-40262 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Case Narrative

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3530-1 SDG: 03E1558142

Page 120 of 244

Job ID: 890-3530-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-40010 and analytical batch 880-40325 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Client Sample ID: SS01 Date Collected: 11/17/22 12:30

Date Received: 11/18/22 08:20 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/28/22 12:53	11/29/22 02:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/28/22 12:53	11/29/22 02:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/28/22 12:53	11/29/22 02:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/28/22 12:53	11/29/22 02:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/28/22 12:53	11/29/22 02:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/28/22 12:53	11/29/22 02:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130			11/28/22 12:53	11/29/22 02:36	1
1,4-Difluorobenzene (Surr)	124		70 - 130			11/28/22 12:53	11/29/22 02:36	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/29/22 09:34	1
Method: SW846 8015 NM - Die		Organics ((DRO) (GC)	11-14		Drenered	Analyzad	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	15500		249	mg/Kg			11/28/22 11:40	1
	Diesel Range	organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U *1	249	mg/Kg		11/23/22 15:04	11/24/22 05:45	5
Diesel Range Organics (Over C10-C28)	13500		249	mg/Kg		11/23/22 15:04	11/24/22 05:45	5
Oll Range Organics (Over C28-C36)	1950		249	mg/Kg		11/23/22 15:04	11/24/22 05:45	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			11/23/22 15:04	11/24/22 05:45	5
o-Terphenyl	259	S1+	70 - 130			11/23/22 15:04	11/24/22 05:45	5
- Method: EPA 300.0 - Anions,	Ion Chroma	tography -	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4170		50.4	mg/Kg			11/23/22 22:34	10

SDG: 03E1558142

Page 121 of 244

Lab Sample ID: 890-3530-1 Matrix: Solid

Surrogate Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

_ 			Percent Surrogate R	Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
880-21941-A-1-D MS	Matrix Spike	76	105		
880-21941-A-1-E MSD	Matrix Spike Duplicate	69 S1-	102		6
890-3530-1	SS01	90	124		
LCS 880-40466/1-A	Lab Control Sample	84	111		
LCSD 880-40466/2-A	Lab Control Sample Dup	82	94		
MB 880-40412/5-A	Method Blank	74	110		8
MB 880-40466/5-A	Method Blank	73	97		••••••
Surrogate Legend					9

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

			Percent Surrogate Recovery (Acceptance	Limits)	
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		13
890-3525-A-1-C MS	Matrix Spike	145 S1+	159 S1+		
890-3525-A-1-D MSD	Matrix Spike Duplicate	147 S1+	164 S1+		
890-3530-1	SS01	118	259 S1+		
LCS 880-40343/2-A	Lab Control Sample	175 S1+	217 S1+		
LCSD 880-40343/3-A	Lab Control Sample Dup	200 S1+	240 S1+		
MB 880-40343/1-A	Method Blank	155 S1+	184 S1+		

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-3530-1

SDG: 03E1558142

Page 122 of 244

Prep Type: Total/NA

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Lab Sample ID: MB 880-40412/5-A

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid							Prep Type: To	
Analysis Batch: 40361	МВ	мв					Prep Batch	: 40412
Analyte	Result		RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/28/22 10:23	11/28/22 12:29	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130			11/28/22 10:23	11/28/22 12:29	1
1,4-Difluorobenzene (Surr)	110		70 - 130			11/28/22 10:23	11/28/22 12:29	1
Lab Sample ID: MB 880-40	466/5-A					Client Same	ole ID: Method	d Blank
Matrix: Solid						•	Prep Type: To	
Analysis Batch: 40361							Prep Batch	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 00:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 00:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/28/22 12:53	11/29/22 00:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/28/22 12:53	11/29/22 00:05	1

0.00200

mg/Kg

mg/Kg

Xylenes, Total	<0.00400	U	0.00400
	MB	МВ	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	73		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

<0.00200 U

Lab Sample ID: LCS 880-40466/1-A Matrix: Solid Analysis Batch: 40361

o-Xylene

Analysis Batch: 40361							Prep B	atch: 40466
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1040		mg/Kg		104	70 - 130	
Toluene	0.100	0.1006		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.09217		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1598		mg/Kg		80	70 - 130	
o-Xylene	0.100	0.07997		mg/Kg		80	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-40466/2-A			C	Client Sa	mple	ID: Lab	o Control		
Matrix: Solid							Prep Ty	pe: Tot	al/NA
Analysis Batch: 40361							Prep B	Batch: 4	40466
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08207		mg/Kg		82	70 - 130	24	35

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Job ID: 890-3530-1 SDG: 03E1558142

Client Sample ID: Method Blank

11/28/22 12:53 11/29/22 00:05

11/28/22 12:53 11/29/22 00:05

11/28/22 12:53 11/29/22 00:05

11/28/22 12:53 11/29/22 00:05

Client Sample ID: Lab Control Sample

Analyzed

Prep Type: Total/NA

Prepared

1

1

1

1

Dil Fac

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

Lab Sample ID: LCSD 880-40466/2-A Matrix: Solid Analysis Batch: 40361			C	Client Sa	nple	ID: Lat	Control S Prep Ty Prep E	pe: Tot	al/NA
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1103		mg/Kg		110	70 - 130	9	35
Ethylbenzene	0.100	0.1123		mg/Kg		112	70 - 130	20	35
m-Xylene & p-Xylene	0.200	0.2024		mg/Kg		101	70 - 130	24	35
o-Xylene	0.100	0.09966		mg/Kg		100	70 - 130	22	35
LCSD LCSD									

	LUSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	82		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-21941-A-1-D MS Matrix: Solid Analysis Batch: 40361

Analysis Batch: 40361									Prep Batch: 40466
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U F1	0.0996	0.03139	F1	mg/Kg		32	70 - 130
Toluene	<0.00200	U F1	0.0996	0.02826	F1	mg/Kg		28	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.02733	F1	mg/Kg		27	70 - 130
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.04741	F1	mg/Kg		24	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.02598	F1	mg/Kg		26	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	76		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 880-21941-A-1-E MSD Matrix: Solid Analysis Batch: 40361

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	< 0.00200	U F1	0.0996	0.03831	F1	mg/Kg		38	70 - 130	20	35
Toluene	<0.00200	U F1	0.0996	0.02919	F1	mg/Kg		29	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.0996	0.02670	F1	mg/Kg		27	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U F1	0.199	0.04101	F1	mg/Kg		21	70 - 130	14	35
o-Xylene	<0.00200	U F1	0.0996	0.02211	F1	mg/Kg		22	70 - 130	16	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130								

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

102

Lab Sample ID: MB 880-40343/1-A Matrix: Solid Analysis Batch: 40262							le ID: Method Prep Type: To Prep Batch:	otal/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/23/22 15:04	11/23/22 20:46	1

70 - 130

Job ID: 890-3530-1 SDG: 03E1558142

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 40466

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1,4-Difluorobenzene (Surr)

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

Lab Sample ID: MB 880-40343 Matrix: Solid Analysis Batch: 40262	3/1 -A						Cli		le ID: Methoo Prep Type: To Prep Batch	otal/NA
	МВ	МВ								
Analyte	Result	Qualifier	RI	-	Unit	[D F	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0)	mg/K	g	11/2	23/22 15:04	11/23/22 20:46	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0)	mg/K	g	11/2	23/22 15:04	11/23/22 20:46	1
	MB	МВ								
Surrogate	%Recovery	Qualifier	Limits				F	Prepared	Analyzed	Dil Fac
1-Chlorooctane	155	S1+	70 - 130	-			11/2	23/22 15:04	11/23/22 20:46	1
o-Terphenyl	184	S1+	70 - 130				11/2	23/22 15:04	11/23/22 20:46	1
Lab Sample ID: LCS 880-4034	3/2-A					Clie	nt Sa	mple ID:	Lab Control S	Sample
Matrix: Solid									Prep Type: To	
Analysis Batch: 40262									Prep Batch	
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	949.0		mg/Kg		95	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1030		mg/Kg		103	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	175	S1+	70 - 130
o-Terphenyl	217	S1+	70 - 130

Lab Sample ID: LCSD 880-40343/3-A Matrix: Solid Analysis Batch: 40262

Analysis Batch: 40262							Prep E	atch: 4	10343
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1193	*1	mg/Kg		119	70 - 130	23	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1169		mg/Kg		117	70 - 130	13	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	200	S1+	70 - 130
o-Terphenyl	240	S1+	70 - 130

Lab Sample ID: 890-3525-A-1-C MS Matrix: Solid

Analysis Batch: 40262									Prep E	Batch: 40343
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	999	1143		mg/Kg		114	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	1303		mg/Kg		130	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	159	S1+	70 - 130

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Page 125 of 244

Job ID: 890-3530-1

SDG: 03E1558142

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Released to Imaging: 2/18/2025 11:05:31 AM

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

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

Lab Sample ID: 890-3525	-A-1-D MSD					Client	Samp	le ID: N	latrix Spil	ce Dup	licate
Matrix: Solid									Prep Ty	pe: Tot	al/NA
Analysis Batch: 40262									Prep E	atch: 4	40343
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	998	1103		mg/Kg		111	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1360	F1	mg/Kg		136	70 - 130	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	147	S1+	70 - 130								
o-Terphenyl	164	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

									Prep E	Satch: 4	40343
Analysis Batch: 40262	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9		998	1103		mg/Kg		111	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	1360	F1	mg/Kg		136	70 - 130	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	147	S1+	70 - 130	-							
o-Terphenyl	164	S1+	70 - 130								
Method: 300.0 - Anion	s, Ion Chro	omatogra	phy								
Lab Sample ID: MB 880-4	0010/1-A						Clie	ent Sam	ple ID: M	ethod	Blank
Matrix: Solid									Prep Ty	ype: So	oluble
Analysis Batch: 40325											
A se a b sta	_	MB MB				-			. .		B F
Analyte		sult Qualifie	r	RL			D P	repared	Analyz		Dil Fac
Chloride	<	5.00 U		5.00	mg/K	y			11/23/22	19:11	1
Lab Sample ID: LCS 880-4	40010/2-A					Clie	nt Sa	mple ID	: Lab Cor	ntrol Sa	ample
Matrix: Solid								•	Prep Ty		
Analysis Batch: 40325											
-			Spike	LCS	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
			Added 250	243.9	Qualifier	Unit mg/Kg	D	%Rec 98	Limits 90 - 110		
Chloride	 -4 0010/3-Δ					mg/Kg		98	90 - 110		e Dun
Chloride Lab Sample ID: LCSD 880	0-40010/3-A					mg/Kg		98	90 - 110 • Control		
Chloride Lab Sample ID: LCSD 880 Matrix: Solid)-40010/3-A					mg/Kg		98	90 - 110		
	0-40010/3-A				C	mg/Kg		98	90 - 110 • Control		
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325)-40010/3-A		250	243.9	C	mg/Kg		98	90 - 110 Control S Prep Ty		oluble
Chloride Lab Sample ID: LCSD 880 Matrix: Solid	0-40010/3-A		250 Spike	243.9	LCSD	mg/Kg	mple	98 ID: Lat	90 - 110 90 - 110 90 Control 9 90 Prep Ty %Rec	ype: So	RPD
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325 Analyte			250 Spike Added	243.9 LCSD Result	LCSD	mg/Kg Client Sa Unit	imple	98 ID: Lat %Rec 99	90 - 110 Control S Prep Ty %Rec Limits	RPD 1 Matrix	RPD Limit 20 Spike
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-			250 Spike Added	243.9 LCSD Result	LCSD	mg/Kg Client Sa Unit	imple	98 ID: Lat %Rec 99	90 - 110 Control 3 Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty	RPD 1 Matrix	RPD Limit 20 Spike
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526- Matrix: Solid Analysis Batch: 40325	-A-1-B MS Sample		250 Spike Added 250 Spike	243.9 LCSD Result 246.3 MS	C LCSD Qualifier MS	mg/Kg Client Sa Unit mg/Kg	mple	98 ID: Lat <u>%Rec</u> 99	90 - 110 Control 3 Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec	RPD 1 Matrix	RPD Limit 20 Spike
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526- Matrix: Solid Analysis Batch: 40325 Analyte	-A-1-B MS Sample Result	Qualifier	250 Spike Added 250 Spike Added	243.9 LCSD Result 246.3 MS Result	LCSD Qualifier MS Qualifier	mg/Kg Client Sa Unit mg/Kg Unit	imple	98 ID: Lak <u>%Rec</u> 99 lient Sa %Rec	90 - 110 Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits	RPD 1 Matrix	RPD Limit 20 Spike
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526- Matrix: Solid Analysis Batch: 40325 Analyte	-A-1-B MS Sample	Qualifier	250 Spike Added 250 Spike	243.9 LCSD Result 246.3 MS	LCSD Qualifier MS Qualifier	mg/Kg Client Sa Unit mg/Kg	mple D C	98 ID: Lat <u>%Rec</u> 99	90 - 110 Control 3 Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec	RPD 1 Matrix	RPD Limit 20 Spike
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526- Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526-	-A-1-B MS Sample Result 458	Qualifier	250 Spike Added 250 Spike Added	243.9 LCSD Result 246.3 MS Result	LCSD Qualifier MS Qualifier	mg/Kg Client Sa Unit mg/Kg	D C D	98 ID: Lak <u>%Rec</u> 99 lient Sa <u>%Rec</u> 85	90 - 110 90 - 110 90 - 110 %Rec Limits 90 - 110 mple ID: I %Rec Limits 90 - 110 %Rec Limits 90 - 110 %Rec Matrix Spil	ype: So RPD 1 Matrix ype: So ke Dup	Spike oluble
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526- Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526- Matrix: Solid	-A-1-B MS Sample Result 458	Qualifier	250 Spike Added 250 Spike Added	243.9 LCSD Result 246.3 MS Result	LCSD Qualifier MS Qualifier	mg/Kg Client Sa Unit mg/Kg	D C D	98 ID: Lak <u>%Rec</u> 99 lient Sa <u>%Rec</u> 85	90 - 110 Control 3 Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110	ype: So RPD 1 Matrix ype: So ke Dup	Spike oluble
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526- Matrix: Solid	-A-1-B MS Sample Result 458 -A-1-C MSD	Qualifier	250 Spike Added 250 Spike Added	243.9 LCSD Result 246.3 MS Result 669.7	LCSD Qualifier MS Qualifier	mg/Kg Client Sa Unit mg/Kg	D C D	98 ID: Lak <u>%Rec</u> 99 lient Sa <u>%Rec</u> 85	90 - 110 90 - 110 90 - 110 %Rec Limits 90 - 110 mple ID: I %Rec Limits 90 - 110 %Rec Limits 90 - 110 %Rec Matrix Spil	ype: So RPD 1 Matrix ype: So ke Dup	Spike oluble
Chloride Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526- Matrix: Solid Analysis Batch: 40325 Analyte Chloride Lab Sample ID: 890-3526- Matrix: Solid	-A-1-B MS Sample Result 458 -A-1-C MSD Sample	Qualifier F1	250 Spike Added 250 Spike Added 250	243.9 LCSD Result 246.3 MS Result 669.7	LCSD Qualifier MS Qualifier F1 MSD Qualifier	mg/Kg Client Sa Unit mg/Kg	D D D Samp	98 ID: Lak <u>%Rec</u> 99 lient Sa <u>%Rec</u> 85	90 - 110 Prep Ty %Rec Limits 90 - 110 mple ID: I Prep Ty %Rec Limits 90 - 110 Matrix Spill Prep Ty	ype: So RPD 1 Matrix ype: So ke Dup	Spike oluble

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Page 126 of 244

Job ID: 890-3530-1

SDG: 03E1558142

QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

GC VOA

Analysis Batch: 40361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3530-1	SS01	Total/NA	Solid	8021B	40466
MB 880-40412/5-A	Method Blank	Total/NA	Solid	8021B	40412
MB 880-40466/5-A	Method Blank	Total/NA	Solid	8021B	40466
LCS 880-40466/1-A	Lab Control Sample	Total/NA	Solid	8021B	40466
LCSD 880-40466/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	40466
880-21941-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	40466
880-21941-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	40466
Prep Batch: 40412					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-40412/5-A	Method Blank	Total/NA	Solid	5035	
Prep Batch: 40466					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3530-1	SS01	Total/NA	Solid	5035	
MB 880-40466/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-40466/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-40466/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-21941-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-21941-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Analysis Batch: 4056	9				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Lab Sample ID Prep Type Method **Client Sample ID** Matrix 890-3530-1 SS01 Total/NA Solid Total BTEX

GC Semi VOA

Analysis Batch: 40262

Lab Sample ID 890-3530-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 40343
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015B NM	40343
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	40343
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	40343
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	40343
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	40343

Prep Batch: 40343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3530-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-40343/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-40343/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-40343/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3525-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3525-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 40452

Lab Sample ID	Client Sample ID	Prep Туре	Matrix	Method	Prep Batch
890-3530-1	SS01	Total/NA	Solid	8015 NM	

Job ID: 890-3530-1

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QC Association Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

HPLC/IC

Leach Batch: 40010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-3530-1	SS01	Soluble	Solid	DI Leach		
MB 880-40010/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-40010/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-40010/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
890-3526-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach		
890-3526-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		

Lab Sample ID **Client Sample ID** Method Prep Type Matrix Prep Batch 890-3530-1 **SS01** Soluble Solid 300.0 40010 MB 880-40010/1-A Method Blank Soluble Solid 300.0 40010 LCS 880-40010/2-A Lab Control Sample Soluble Solid 300.0 40010 LCSD 880-40010/3-A Lab Control Sample Dup Soluble Solid 300.0 40010 Soluble 300.0 40010 890-3526-A-1-B MS Matrix Spike Solid 890-3526-A-1-C MSD Matrix Spike Duplicate Soluble Solid 300.0 40010

Job ID: 890-3530-1 SDG: 03E1558142

Page 128 of 244

Lab Chronicle

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Client Sample ID: SS01 Date Collected: 11/17/22 12:30 Date Received: 11/18/22 08:20

- 	Batch	Batch	P	Dil	Initial	Final	Batch	Prepared	A	
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	40466	11/28/22 12:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	40361	11/29/22 02:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			40569	11/29/22 09:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			40452	11/28/22 11:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	40343	11/23/22 15:04	AM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	40262	11/24/22 05:45	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	40010	11/20/22 12:21	СН	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	40325	11/23/22 22:34	CH	EET MID

Laboratory References:

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

Page 129 of 244

Job ID: 890-3530-1 SDG: 03E1558142

Lab Sample ID: 890-3530-1

Matrix: Solid

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3530-1 SDG: 03E1558142

Laboratory: Eurofins Midland

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

uthority	Pr	ogram	Identification Number	Expiration Date
exas	NE	ELAP	T104704400-22-25	12-19-22
The following analytes the agency does not o	•	ort, but the laboratory is n	ot certified by the governing authority.	This list may include analytes for whic
• •	•	ort, but the laboratory is n Matrix	ot certified by the governing authorityAnalyte	I his list may include analytes for whic
the agency does not o	ffer certification.			I his list may include analytes for whic

Eurofins Carlsbad

Method Summary

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H Job ID: 890-3530-1 SDG: 03E1558142

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Page 132 of 244

Client: Ensolum Project/Site: PLU 21 BRUSHY DRAW 125H

Job ID: 890-3530-1
SDG: 03E1558142

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3530-1	SS01	Solid	11/17/22 12:30	11/18/22 08:20	0.5

5	" Cartan	Relinquished by: (Signature)	Notice: Signature of this do of service. Eurofins Xenco of Eurofins Xenco. A minim	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed						/	1055	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT	PO#	Sampler's Name:	Project Location:	Project Number:	Project Name:	Phone: 3	City, State ZIP: C	Address: 3	Company Name: E	Project Manager: K		🔅 eurofins
		(Signature)	cument and relinquis will be liable only for rum charge of \$85.00	0 200.8 / 6020: d Metal(s) to be an										Yes No	Yes No		Temp Blank:		Connor		03E1	PLU 21 Brus	303-887-2946	Carlsbad, NM 88220	3122 National Parks Hwy	Ensolum	Kalei Jennings		
	Morena	Rec	hment of samples the cost of sample will be applied to c	20: analyzed			/				2/11/12	Matrix Date Sampled	Correcte	(N/A Tempera	MIA Correction	크	Ø		Connor Whitman		03E1558142	PLU 21 Brushy Draw 125H		3220	arks Hwy				Environment Testing Xenco
	rola L	Received by: (Signature)	constitutes a valid p is and shall not assu each project and a cl	8RCRA 13F		 1					17/22 12:30	e Time led Sampled	Corrected Temperature:	Temperature Reading:	Correction Factor:	neter ID:	No Wet Ice:	the lab, if r	TAT starts	Due Date:	Routine		Email:						Testing
	tut	ature)	urchase order from cli me any responsibility narge of \$5 for each sa	RA 13PPM Texas 11 AI S TCLP / SPLP 6010: 8RCRA							is G	Depth Grab/ Comp	4.2	4.4	-Did	Inn-007	(res) No	the lab, if received by 4:30pm	the day received by		e Rush	Turn Around	it: Garrett.Green	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Hobb	Hous
	1 color 111	Date/Time	lent company to Eurofins X for any losses or expenses ample submitted to Eurofini	b As Ba Be Sb As Ba B	2						- / / /	Cont CHLOF TPH (8	015)			aran 300.0	_	rs			Code		Garrett.Green@ExxonMobil.com	Carlsbad, NM 88220	3104 E. Green St	e: XTO Energy	t) Garrett Green	s. NM (575) 392-7550, Ca	tion. TX (281) 240-4200. Dallas. TX (214) 90 1. TX (432) 704-5440. San Antonio, TX (210) 1. TX /0151 565-2443. Lubbook. TX /8061 7
6	Qera	Relinquished by: (Signa	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from cilent company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated	Cd Ca Cr Co Cu Fe Pb Cd Cr Co Cu Pb Mn Mc										890-3530 Cha								ANALYSIS RE		38220	St			Hobbs. NM (575) 392-7550. Carlsbad. NM (575) 988-3199	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
		ignature) Received	It assigns standard terms and a due to circumstances beyond will be enforced unless previo	Pb Mg Mn Mo Ni K Se Mo Ni Se Ag TI U										in of Custody								REQUEST	Deliverables: EDD	Reporting: Level II Level III L PST/UST TRRP	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund	-	WW	Work
		Received by: (Signature)	conditions I the control usly negotiated.	Ag SiO ₂ Na Sr TI Sn U V Zi Hg: 1631/245.1/7470/7471			AFE:		Cost Center:	nAPP2229145683	Incident ID	S	NaCH+	Zn Acet	Na ₂ S ₂ O	NaHSO	H ₃ PO ₄ : HP	H ₂ SO ₄ H ₂	HCL: HC	Cool: Cool	None: NO	Pr	ADaPT LJ]	PRP Brownfields	Work Order Comments	www.xenco.com Page	Work Order No:
Revised Date: 0 20 Rev. 2020		Date/Time		1 Sn U V Zn 17470 / 7471				1666421001	enter:	145683	nt ID:	Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO4: NABIS	HP	H ₂ NaOH Na		ool MeOH: Me	VO DI Water: H ₂ O	Preservative Codes	Other:			RRC Superfund	nts	je (of	

Job Number: 890-3530-1 SDG Number: 03E1558142

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3530 List Number: 1 Creator: Clifton, Cloe

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

14

Job Number: 890-3530-1 SDG Number: 03E1558142

List Source: Eurofins Midland

List Creation: 11/21/22 08:46 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3530 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 2/12/2025 1:55:23 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 1/6/2023 4:28:07 PM

JOB DESCRIPTION

PLU 21 Brushy Draw 125H SDG NUMBER 03E1558142

JOB NUMBER

890-3726-1

RT OR ings olum d St. 400

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Received by OCD: 2/12/2025 1:55:23 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 1/6/2023 4:28:07 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3726-1 SDG: 03E1558142

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

Definitions/Glossary

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H Job ID: 890-3726-1 SDG: 03E1558142

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		5
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	7
U	Indicates the analyte was analyzed for but not detected.	
Glossary		8
Abbreviation	These commonly used abbreviations may or may not be present in this report.	9
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	10
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	11
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	13
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)	

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Negative / Absent

Positive / Present Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Presumptive Quality Control

NEG

POS

PQL PRES

QC RER

RL RPD

TEF

TEQ

TNTC

Case Narrative

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H Job ID: 890-3726-1 SDG: 03E1558142

Job ID: 890-3726-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3726-1

Receipt

The samples were received on 12/30/2022 9:30 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 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-3726-1) and FS02 (890-3726-2).

GC VOA

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

GC Semi VOA

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.

Project/Site: PLU 21 Brushy Draw 125H

Job ID: 890-3726-1 SDG: 03E1558142

Matrix: Solid

5

Lab Sample ID: 890-3726-1

Client Sample ID: FS01

Date Collected: 12/29/22 09:20 Date Received: 12/30/22 09:30

Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401	mg/Kg		01/04/23 14:24	01/06/23 15:24	20
Toluene	<0.0401	U	0.0401	mg/Kg		01/04/23 14:24	01/06/23 15:24	20
Ethylbenzene	<0.0401	U	0.0401	mg/Kg		01/04/23 14:24	01/06/23 15:24	20
m-Xylene & p-Xylene	<0.0802	U	0.0802	mg/Kg		01/04/23 14:24	01/06/23 15:24	20
o-Xylene	<0.0401	U	0.0401	mg/Kg		01/04/23 14:24	01/06/23 15:24	20
Xylenes, Total	<0.0802	U	0.0802	mg/Kg		01/04/23 14:24	01/06/23 15:24	20
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			01/04/23 14:24	01/06/23 15:24	20
1,4-Difluorobenzene (Surr)	75		70 - 130			01/04/23 14:24	01/06/23 15:24	20
Method: TAL SOP Total BTEX	- Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0802	U	0.0802	mg/Kg			01/06/23 17:07	1
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2100		50.0	mg/Kg			01/05/23 10:36	1
Method: SW846 8015B NM - D	iesel Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	ma/Ka		01/04/23 08:24	01/04/23 18:45	1

<50.0	U	50.0	mg/Kg	01/04/23 08:24	01/04/23 18:45	1
1820		50.0	mg/Kg	01/04/23 08:24	01/04/23 18:45	1
281		50.0	mg/Kg	01/04/23 08:24	01/04/23 18:45	1
%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
109		70 - 130		01/04/23 08:24	01/04/23 18:45	1
96		70 - 130		01/04/23 08:24	01/04/23 18:45	1
	1820 281 <u>%Recovery</u> 109	281 <u>%Recovery</u> Qualifier 109	1820 50.0 281 50.0 %Recovery Qualifier Limits 109 70 - 130	1820 50.0 mg/Kg 281 50.0 mg/Kg %Recovery Qualifier Limits 109 70 - 130	1820 50.0 mg/Kg 01/04/23 08:24 281 50.0 mg/Kg 01/04/23 08:24 %Recovery Qualifier Limits Prepared 109 70 - 130 01/04/23 08:24	1820 50.0 mg/Kg 01/04/23 08:24 01/04/23 18:45 281 50.0 mg/Kg 01/04/23 08:24 01/04/23 18:45 %Recovery Qualifier Limits Prepared Analyzed 109 70 - 130 01/04/23 08:24 01/04/23 18:45

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	8400		100	mg/Kg			01/04/23 06:24	20	

Client Sample ID: FS02

Date Collected: 12/29/22 11:10

Date Received: 12/30/22 09:30

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0399	U	0.0399	mg/Kg		01/04/23 14:24	01/06/23 15:44	20
Toluene	<0.0399	U	0.0399	mg/Kg		01/04/23 14:24	01/06/23 15:44	20
Ethylbenzene	0.112		0.0399	mg/Kg		01/04/23 14:24	01/06/23 15:44	20
m-Xylene & p-Xylene	<0.0798	U	0.0798	mg/Kg		01/04/23 14:24	01/06/23 15:44	20
o-Xylene	<0.0399	U	0.0399	mg/Kg		01/04/23 14:24	01/06/23 15:44	20
Xylenes, Total	<0.0798	U	0.0798	mg/Kg		01/04/23 14:24	01/06/23 15:44	20

Eurofins Carlsbad

Lab Sample ID: 890-3726-2

Matrix: Solid

Released to Imaging: 2/18/2025 11:05:31 AM

Client: Ensolum

5

Client Sample Results

Job ID: 890-3726-1 SDG: 03E1558142

Project/Site: PLU 21 Brushy Draw 125H						SDG: 03E15					
Client Sample ID: FS02 Date Collected: 12/29/22 11:10 Date Received: 12/30/22 09:30								3726-2 x: Solid			
Sample Depth: 0.5											
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	121		70 - 130			01/04/23 14:24	01/06/23 15:44	20			
1,4-Difluorobenzene (Surr)	91		70 - 130			01/04/23 14:24	01/06/23 15:44	20			
- Method: TAL SOP Total BTEX ·	· Total BTEX Cal	culation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Total BTEX	0.112		0.0798	mg/Kg			01/06/23 17:07	1			
- Method: SW846 8015 NM - Dies	sel Range Organ	ics (DRO) (GC)								
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Total TPH	2280		49.9	mg/Kg			01/05/23 10:36	1			
- Method: SW846 8015B NM - Di	esel Range Orga	nics (DRO)	(60)								
Analyte											
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics	Result <49.9			Unit mg/Kg	D	Prepared 01/04/23 08:24	Analyzed 01/04/23 19:05	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over			RL		<u> </u>	·		1			
Gasoline Range Organics (GRO)-C6-C10	<49.9		RL 49.9	mg/Kg	<u> </u>	01/04/23 08:24	01/04/23 19:05				
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	<49.9	U	RL 49.9 49.9	mg/Kg	<u> </u>	01/04/23 08:24	01/04/23 19:05	1 1			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 1970 305	U	RL 49.9 49.9 49.9	mg/Kg	<u>D</u>	01/04/23 08:24 01/04/23 08:24 01/04/23 08:24	01/04/23 19:05 01/04/23 19:05 01/04/23 19:05	1 1 1			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 1970 305 %Recovery	U	RL 49.9 49.9 49.9 <i>Limits</i>	mg/Kg	<u>D</u>	01/04/23 08:24 01/04/23 08:24 01/04/23 08:24 Prepared	01/04/23 19:05 01/04/23 19:05 01/04/23 19:05 01/04/23 19:05 Analyzed	1 1 1			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 1970 305 <i>%Recovery</i> 105 91	U Qualifier	RL 49.9 49.9 49.9 49.9 70.130 70.130 70.130	mg/Kg	<u>D</u>	01/04/23 08:24 01/04/23 08:24 01/04/23 08:24 01/04/23 08:24 <i>Prepared</i> 01/04/23 08:24	01/04/23 19:05 01/04/23 19:05 01/04/23 19:05 01/04/23 19:05 <u>Analyzed</u> 01/04/23 19:05	1 1 1			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 1970 305 <u>%Recovery</u> 105 91 ns, Ion Chromato	U Qualifier	RL 49.9 49.9 49.9 49.9 70.130 70.130 70.130	mg/Kg	D	01/04/23 08:24 01/04/23 08:24 01/04/23 08:24 01/04/23 08:24 <i>Prepared</i> 01/04/23 08:24	01/04/23 19:05 01/04/23 19:05 01/04/23 19:05 01/04/23 19:05 <u>Analyzed</u> 01/04/23 19:05	1 1 1			

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

				Percent Surrogate Recovery (Acceptance Limits
		BFB1	DFBZ1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
26-1	FS01	93	75	
26-2	FS02	121	91	
3738-A-1-E MS	Matrix Spike	99	105	
738-A-1-F MSD	Matrix Spike Duplicate	105	109	
0-43171/1-A	Lab Control Sample	104	106	
D 880-43171/2-A	Lab Control Sample Dup	102	107	
380-43171/5-A	Method Blank	99	105	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
mple ID	Client Sample ID	(70-130)	(70-130)	
26-1	FS01	109	96	
3726-2	FS02	105	91	
753-A-1-B MS	Matrix Spike	103	81	
53-A-1-C MSD	Matrix Spike Duplicate	101	79	
)-43112/2-A	Lab Control Sample	113	93	
880-43112/3-A	Lab Control Sample Dup	112	92	
30-43112/1-A	Method Blank	121	114	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-3726-1 SDG: 03E1558142

Page 143 of 244

Prep Type: Total/NA

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Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43171/5-A	
Matrix: Solid	

Matrix: Solid Analysis Batch: 43326

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			01/04/23 14:24	01/06/23 11:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130			01/04/23 14:24	01/06/23 11:51	1

Lab Sample ID: LCS 880-43171/1-A Matrix: Solid

Analysis Batch: 43326

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07559		mg/Kg		76	70 - 130	
Toluene	0.100	0.07256		mg/Kg		73	70 - 130	
Ethylbenzene	0.100	0.07155		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	0.200	0.1466		mg/Kg		73	70 - 130	
o-Xylene	0.100	0.07250		mg/Kg		73	70 - 130	

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

Lab Sample ID: LCSD 880-43171/2-A

Matrix: Solid

Analysis Batch: 43326							Prep	Batch:	43171
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07746		mg/Kg		77	70 - 130	2	35
Toluene	0.100	0.07295		mg/Kg		73	70 - 130	1	35
Ethylbenzene	0.100	0.07137		mg/Kg		71	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1500		mg/Kg		75	70 - 130	2	35
o-Xylene	0.100	0.07359		mg/Kg		74	70 - 130	1	35

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

Lab Sample ID: 890-3738-A-1-E MS

Matrix: Solid alveie Ratch: 42220

Analysis Batch: 43326									Pre	o Batch: 43171
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.09220		mg/Kg		92	70 - 130	
Toluene	<0.00201	U	0.100	0.08852		mg/Kg		88	70 - 130	

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 43171

Released to	Imaging:	2/18/2025	11:05:31 AM	
QC Sample Results

MS MS

0.08473

0.1759

0.08390

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.100

0.200

0.100

Limits

70 - 130

70 - 130

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

Lab Sample ID: 890-3738-A-1-E MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 43326

Sample Sample

<0.00201

<0.00402 U

<0.00201 U

%Recovery

Result Qualifier

U

MS MS

99

105

109

Qualifier

SDG: 03E1558142

Prep Type: Total/NA

Prep Batch: 43171

7

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

Matrix: Solid Analysis Batch: 43326

Lab Sample ID: 890-3738-A-1-F MSD

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 43326									Prep	Batch:	43171	
_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U	0.0990	0.1018		mg/Kg		103	70 - 130	10	35	
Toluene	<0.00201	U	0.0990	0.09453		mg/Kg		95	70 - 130	7	35	i
Ethylbenzene	<0.00201	U	0.0990	0.09255		mg/Kg		93	70 - 130	9	35	
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1923		mg/Kg		97	70 - 130	9	35	i
o-Xylene	<0.00201	U	0.0990	0.09249		mg/Kg		93	70 - 130	10	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	105		70 - 130									

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

Lab Sample ID: MB 880-43112/1-4 Matrix: Solid Analysis Batch: 43104						Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
Analyte	MB	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
						•		DIIFac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 09:14	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 09:14	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 09:14	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			01/04/23 08:24	01/04/23 09:14	1
o-Terphenyl	114		70 - 130			01/04/23 08:24	01/04/23 09:14	1
Lab Sample ID: LCS 880-43112/2-	-A				c	lient Sample I	D: Lab Control	Sample

70 - 130

Matrix: Solid Analysis Batch: 43104

Analysis Batch: 43104							Prep	Batch: 43112
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	937.8		mg/Kg		94	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	851.1		mg/Kg		85	70 - 130	
C10-C28)								

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Prep Type: Total/NA

Job ID: 890-3726-1

Client Sample ID: Matrix Spike

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

85

88

84

D

QC Sample Results

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

Lab Sample ID: LCS 880-43112/2-A

Lab Sample ID: LCSD 880-43112/3-A

Matrix: Solid

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

1-Chlorooctane

Matrix: Solid

Analysis Batch: 43104

Analysis Batch: 43104

Gasoline Range Organics (GRO)-C6-C10

Diesel Range Organics (Over

Method: 8015B NM - Diesel Range Or

LCSD

92

%Recovery

%Recovery

								Job I	D: 890-3	3726-1	
								SDG	6: 03E15	58142	2
e O	rganics (D	RO) (GC) (Continue	ed)							3
						Client	Sample	ID: Lab C	ontrol S	amplo	
						Chem	Sample		Type: To		Λ
									Batch:		-
								Flep	Datch.	43112	E
LCS	LCS										5
overy	Qualifier	Limits									
113		70 - 130									6
93		70 - 130									
											7
					Clier	nt Sam	nple ID:	Lab Contro	ol Sampl	e Dup	-
					Clier	nt Sam	nple ID:		ol Sampl Type: To		8
					Clier	nt Sam	nple ID:	Prep 1		tal/NA	8
		Spike	LCSD	LCSD	Clier	nt Sam	nple ID:	Prep 1	Гуре: То	tal/NA	8
		Spike Added		LCSD Qualifier	Clier	nt Sam D	%Rec	Prep T Prep	Гуре: То	tal/NA 43112	8 9
		•					-	Prep 1 Prep %Rec	Type: To Batch:	tal/NA 43112 RPD	8 9 10
		Added	Result		Unit		%Rec	Prep 1 Prep %Rec Limits	Type: Top Batch: 	tal/NA 43112 RPD Limit	8 9 10
		Added	Result 957.7		- Unit mg/Kg		%Rec 96	Prep 7 Prep %Rec Limits 70 - 130	RPD 2	tal/NA 43112 RPD Limit 20	8 9 10 11
		Added	Result 957.7		- Unit mg/Kg		%Rec 96	Prep 7 Prep %Rec Limits 70 - 130	RPD 2	tal/NA 43112 RPD Limit 20	8 9 10 11
	LCSD Qualifier	Added	Result 957.7		- Unit mg/Kg		%Rec 96	Prep 7 Prep %Rec Limits 70 - 130	RPD 2	tal/NA 43112 RPD Limit 20	8 9 10 11
		Added	Result 957.7		- Unit mg/Kg		%Rec 96	Prep 7 Prep %Rec Limits 70 - 130	RPD 2	tal/NA 43112 RPD Limit 20	8 9 10 11 12

Lab Sample ID: 890-3753-A-1-B MS	
Matrix: Solid	
Analysis Batch: 43104	

Analysis Batch: 43104									Prep	Batch: 43	112
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	960.7		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	799.8		mg/Kg		80	70 - 130		

70 - 130

	MS MS					
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	103		70 - 130			
o-Terphenyl	81		70 - 130			

Lab Sample ID: 890-3753-A-1-C MSD Matrix: Solid

Analysis Batch: 43104									Prep	Batch:	43112
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	965.7		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	788.5		mg/Kg		79	70 - 130	1	20
	MSD	MSD									

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	79		70 - 130

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

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Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 43112

Client: Ensolum

QC Sample Results

Job ID: 890-3726-1 SDG: 03E1558142

Project/Site: PLU 21 Brushy Draw 125H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43076/1-A Matrix: Solid									C	Silent S	ample ID: Prep	Type: S	
Analysis Batch: 43096													
-		MB MB											
Analyte	Re	esult Qual	ifier	RL		Unit		D	Pre	epared	Analy	zed	Dil Fac
Chloride	<	5.00 U		5.00		mg/l	≺g				01/04/23	05:18	
Lab Sample ID: LCS 880-43076/2-A								Clie	ent \$	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 43096													
			Spike		LCS	LCS					%Rec		
Analyte		_	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride			250		262.3		mg/Kg			105	90 - 110		
Lab Sample ID: LCSD 880-43076/3-	A						CI	ient S	amp	ole ID: I	Lab Contro	ol Sampl	le Dur
Matrix: Solid											Prep	Type: S	olubl
Analysis Batch: 43096													
			Spike		LCSD	LCSD					%Rec		RPD
Analyte			Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride			250		264.0		mg/Kg			106	90 - 110	1	20
Lab Sample ID: 890-3724-A-1-C MS										Client	Sample ID	: Matrix	Spike
Matrix: Solid											Prep	Type: S	oluble
Analysis Batch: 43096													
	Sample	Sample	Spike		MS	MS					%Rec		
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	287		250		547.7		mg/Kg			104	90 - 110		
Lab Sample ID: 890-3724-A-1-D MS	D							Client	t Sai	mple ID	: Matrix S	pike Du	plicate
Matrix: Solid										·		Type: S	
Analysis Batch: 43096													
	Sample	Sample	Spike		MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit

QC Association Summary

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

5

Job ID: 890-3726-1 SDG: 03E1558142

GC VOA

Prep Batch: 43171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3726-1	FS01	Total/NA	Solid	5035	
890-3726-2	FS02	Total/NA	Solid	5035	
MB 880-43171/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3738-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43326

090-3730-A-1-1 M3D		Total/NA	Solid	5055		0
Analysis Batch: 43326						Ō
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	9
890-3726-1	FS01	Total/NA	Solid	8021B	43171	
890-3726-2	FS02	Total/NA	Solid	8021B	43171	
MB 880-43171/5-A	Method Blank	Total/NA	Solid	8021B	43171	
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	8021B	43171	
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43171	
890-3738-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43171	
890-3738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43171	
Analysis Batch: 43446						13

Analysis Batch: 43446

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3726-1	FS01	Total/NA	Solid	Total BTEX	
890-3726-2	FS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3726-1	FS01	Total/NA	Solid	8015B NM	43112
890-3726-2	FS02	Total/NA	Solid	8015B NM	43112
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015B NM	43112
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43112
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43112
890-3753-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	43112
890-3753-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43112

Prep Batch: 43112

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3726-1	FS01	Total/NA	Solid	8015NM Prep	
890-3726-2	FS02	Total/NA	Solid	8015NM Prep	
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3753-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3753-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43233

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3726-1	FS01	Total/NA	Solid	8015 NM	
890-3726-2	FS02	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H Job ID: 890-3726-1 SDG: 03E1558142

HPLC/IC

Leach Batch: 43076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3726-1	FS01	Soluble	Solid	DI Leach	
890-3726-2	FS02	Soluble	Solid	DI Leach	
MB 880-43076/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43076/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43076/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3724-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3724-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43096

ab Sample ID.	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3726-1	FS01	Soluble	Solid	DI Leach	
390-3726-2	FS02	Soluble	Solid	DI Leach	
/IB 880-43076/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-43076/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-43076/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3724-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3724-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
nalysis Batch: 43096					
		Prop Type	Matrix	Method	Pron Batch
nalysis Batch: 43096 ab Sample ID 990-3726-1	Client Sample ID FS01	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 43076
ab Sample ID	Client Sample ID	Soluble	Solid		<u> </u>
ab Sample ID 90-3726-1	Client Sample ID FS01	Soluble	Solid	300.0	43076
Lab Sample ID 1990-3726-1 1990-3726-2 MB 880-43076/1-A LCS 880-43076/2-A	Client Sample ID FS01 FS02	Soluble Soluble Soluble Soluble	Solid Solid Solid Solid	300.0 300.0	43076 43076
Lab Sample ID 1990-3726-1 1990-3726-2 MB 880-43076/1-A	Client Sample ID FS01 FS02 Method Blank	Soluble Soluble Soluble Soluble Soluble	Solid Solid Solid	300.0 300.0 300.0	43076 43076 43076
Lab Sample ID 1990-3726-1 1990-3726-2 MB 880-43076/1-A LCS 880-43076/2-A	Client Sample ID FS01 FS02 Method Blank Lab Control Sample	Soluble Soluble Soluble Soluble	Solid Solid Solid Solid	300.0 300.0 300.0 300.0	43076 43076 43076 43076

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Page 149 of 244

Project/Site: PLU 21 Brushy Draw 125H

5 6

9

Job ID: 890-3726-1 SDG: 03E1558142

Lab Sample ID: 890-3726-1 Matrix: Solid

Lab Sample ID: 890-3726-2

Matrix: Solid

Date Collected: 12/29/22 09:20 Date Received: 12/30/22 09:30

Client Sample ID: FS01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43326	01/06/23 15:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43446	01/06/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			43233	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 18:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43076	01/03/23 12:06	KS	EET MID
Soluble	Analysis	300.0		20			43096	01/04/23 06:24	СН	EET MID

Client Sample ID: FS02

Date Collected: 12/29/22 11:10 Date Received: 12/30/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43326	01/06/23 15:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43446	01/06/23 17:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			43233	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 19:05	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43076	01/03/23 12:06	KS	EET MID
Soluble	Analysis	300.0		10			43096	01/04/23 06:29	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

Released to Imaging: 2/18/2025 11:05:31 AM

Client: Ensolum Project/Site: PLU 21 B	rushv Draw 125H			Job ID: 890-3726-1 SDG: 03E1558142	
	-				
Laboratory: Eurof	analytes for this laboratory we	are covered under each acc	reditation/certification below		
	analytes for this laboratory we				
Authority		ogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-22-25	06-30-23	E
The following analytes	are included in this report, bu	ut the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for which	5
the agency does not o					
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
IOTALDIEX		Solid			
					8
					9
					10
					10
					13

Project/Site: PLU 21 Brushy Draw 125H

Job ID: 890-3726-1 SDG: 03E1558142

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

Client: Ensolum

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Job ID: 890-3726-1 SDG: 03E1558142

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3726-1	FS01	Solid	12/29/22 09:20	12/30/22 09:30	0.5
890-3726-2	FS02	Solid	12/29/22 11:10	12/30/22 09:30	0.5

Revised Date 08/25/2020 Rev. 2020.2	C.	6					σ
2 60 15. P		4	ADOUT SOOCH	14	the second	1000 Con	3 MMM
		Relinquished by: (Signature)	Date/Time		Received by: (Signature)	(Signature)	Reinquished by:
	erms and conditions beyond the control Ness previously negotiated.	Notce: Signature of this document and relinquishment of samples constitutes a valid purchase order from cilent company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the cilent if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously nego	rofins Xenco, its affiliates and enses incurred by the client II Eurofins Xenco, but not ana	r from client company to Eu ssibility for any losses or exp or each sample submitted to	s constitutes a valid purchase ordes and shall not assume any responses and project and a charge of \$5 1	ment and reilnquishment of sample be liable only for the cost of sample n charge of \$85.00 will be applied to	Notice: Signature of this docu of service. Eurofins Xenco wi of Eurofins Xenco. A minimu
Ag SiO ₂ Na Sr TI Sn U V Zn Hg: 1631/245.1/7470/7471	li K Se	A 13PPM Texas 11 A Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se	Al Sb As Ba Be B Cd CRA Sb As Ba Be Cd C	M Texas 11 AI S PLP 6010 : 8RCRA	8RCRA 13PPM yzed TCLP/SPLI	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) ar
Decetal VV							
Cast Center:							
APP22224145683		_	× × ×	0.5' C	2/29/12 1110	S	FS02
Incident #:			X		12/29/22 09.20	S	FSOI
Sample Comments			BT	Depth Grab/ # of Comp Cont	Date Time Sampled Sampled	fication	Sample Identification
NaOH+Ascorbic Acid: SAPC	Table of Colorody	002-01-00	14	1-0	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn		890-3726 C		6.1	Temperature Reading:	N/A	Sample Custody Seals:
Na 2S 2O3: NaSO 3						Yes No NIA	Cooler Custody Seals:
NaHSO 4: NABIS				7001	eter ID: N	Yes No	Samples Received Intact:
H PO 1: HP	1921 112 1121 1121 1121 1221				Vat No Wat Ica-	Tomp Blank:	CAMPI E RECEIDT
H ₂ S0 ₄ : H ₂ NaOH: Na				TAT starts the day received by the lab, if received by 4:30pm	TAT starts the lab, if reco	Mered th 100	Sampler's Name: PO #:
<u>o</u>					CONA Due Date:	T'r	Project Location:
None: NO DI Water: H ₂ O			6 <i>T</i>	Rush Code	Routine	0321558142	Project Number:
Preservative Codes	EST	ANALYSIS REQUEST		Turn Around		PLUZI Brushy Dravilasi	Project Name:
ADaPT Other:	Deliverables: EDD	um. com	ennings Censolum. um	Kjenni	3 Email:	817-683-2503	Phone:
	Reporting: Level II Level III	1, NM 88220	Carisbad,	City, State ZIP:	88220	Dad Nr	City, State ZIP:
]	State of Project:	Greene St	3104 E (Address:	Parks How		Address:
Brownfields RRC Superfund	Program: UST/PST PRP Brownfields	Energy	XTO	Company Name:	ςτ.		Company Name:
Work Order Comments	Work Orde	Garrett Green	Garre	Bill to: (if different)	vas	Kalci Jennings	Project Manager:
com Page 1 of 1	www.xenco.com	, NM (575) 988-3199	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM			
		, TX (806) 794-1296	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, TX		Xenco	
	Work Order No:	, TX (214) 902-0300 nio, TX (210) 509-3334	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houston, T Midland, TX (Environment Testing		
		stody	Chain of Custody	0		f : b c	

5

13

Job Number: 890-3726-1 SDG Number: 03E1558142

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3726 List Number: 1 Creator: Clifton, Cloe

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

14

14

Job Number: 890-3726-1 SDG Number: 03E1558142

List Source: Eurofins Midland

List Creation: 01/03/23 09:51 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 3726 List Number: 2 Creator: Rodriguez, Leticia

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

Received by OCD: 2/12/2025 1:55:23 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 1/6/2023 2:42:41 PM

JOB DESCRIPTION

PLU 21 Brushy Draw 125H SDG NUMBER 03E1558142

JOB NUMBER

890-3727-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Received by OCD: 2/12/2025 1:55:23 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 1/6/2023 2:42:41 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-3727-1 SDG: 03E1558142

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	13
Lab Chronicle	15
Certification Summary	16
Method Summary	17
Sample Summary	18
Chain of Custody	19
Receipt Checklists	20

LOQ

MCL

MDA

MDC

MDL

ML

MPN

MQL

NC ND

NEG

POS

PQL PRES

QC

RER

RL RPD

TEF

TEQ

TNTC

	Definitions/Glossary		
Client: Ensolum Project/Site: PL	U 21 Brushy Draw 125H	Job ID: 890-3727-1 SDG: 03E1558142	2
Qualifiers	· ·		3
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VOA			5
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		8
Glossary			Q
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		4.9
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)		

Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

4

5

Job ID: 890-3727-1 SDG: 03E1558142

Job ID: 890-3727-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3727-1

Receipt

The samples were received on 12/30/2022 9:30 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 1.0°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43076 and analytical batch 880-43096 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Project/Site: PLU 21 Brushy Draw 125H

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

Result Qualifier

<0.0398 U

<0.0398 U

RL

0.0398

0.0398

Unit

mg/Kg

mg/Kg

D

Prepared

01/04/23 14:24

01/04/23 14:24

Job ID: 890-3727-1 SDG: 03E1558142

Client Sample ID: BH01

Date Collected: 12/29/22 13:20 Date Received: 12/30/22 09:30

Sample Depth: 1

Analyte

Benzene

Toluene

Client: Ensolum

Lab Sample ID: 890-3727-1

Analyzed

01/06/23 15:04

01/06/23 15:04

Matrix: Solid

5 Dil Fac 20 20

IUIUEIIE	~0.0390	0	0.0390	iiig/itg		01/04/23 14.24	01/00/23 13.04	20	
Ethylbenzene	<0.0398	U	0.0398	mg/Kg		01/04/23 14:24	01/06/23 15:04	20	
m-Xylene & p-Xylene	<0.0797	U	0.0797	mg/Kg		01/04/23 14:24	01/06/23 15:04	20	_
o-Xylene	<0.0398	U	0.0398	mg/Kg		01/04/23 14:24	01/06/23 15:04	20	8
Xylenes, Total	<0.0797	U	0.0797	mg/Kg		01/04/23 14:24	01/06/23 15:04	20	
									Q
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		70 - 130			01/04/23 14:24	01/06/23 15:04	20	
1,4-Difluorobenzene (Surr)	84		70 - 130			01/04/23 14:24	01/06/23 15:04	20	
Method: TAL SOP Total BTEX - Tot	tal BTEX Cal	culation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.0797	U	0.0797	mg/Kg			01/06/23 15:28	1	
Method: SW846 8015 NM - Diesel	Range Organ	ics (DRO) (GC)						49
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	IS
Total TPH	573		50.0	mg/Kg			01/05/23 10:36	1	
Method: SW846 8015B NM - Diese			· · ·						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 19:26	1	
(GRO)-C6-C10			50.0	···· ··· // ···		04/04/02 00:04	01/04/23 19:26	4	
Diesel Range Organics (Over C10-C28)	429		50.0	mg/Kg		01/04/23 08:24	01/04/23 19:20	I	
Oll Range Organics (Over	144		50.0	mg/Kg		01/04/23 08:24	01/04/23 19:26	1	
C28-C36)			00.0			0 110 1120 0012 1	0 110 1120 10120		
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	118		70 - 130			01/04/23 08:24	01/04/23 19:26	1	
o-Terphenyl	105		70 - 130			01/04/23 08:24	01/04/23 19:26	1	
	on Ohnens - to		- luch la						
Method: MCAWW 300.0 - Anions, I					-	- ·			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	6460		49.6	mg/Kg			01/04/23 06:34	10	

Client Sample ID: BH01A

Date Collected: 12/29/22 13:45

Date Received: 12/30/22 09:30

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 14:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 14:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 14:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/04/23 14:24	01/06/23 14:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 14:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/04/23 14:24	01/06/23 14:43	1

Eurofins Carlsbad

Lab Sample ID: 890-3727-2

Matrix: Solid

Project/Site: PLU 21 Brushy Draw 125H

Client Sample Results

Job ID: 890-3727-1 SDG: 03E1558142

Client Sample ID: BH01A

Date Collected: 12/29/22 13:45 Date Received: 12/30/22 09:30

Sample Depth: 3

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/04/23 14:24	01/06/23 14:43	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/04/23 14:24	01/06/23 14:43	1
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/06/23 15:28	1
Method: SW846 8015 NM - Diese	Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/05/23 10:36	1
Method: SW846 8015B NM - Dies Analyte		Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	Result <49.9		RL	Unit mg/Kg	<u>D</u>	Prepared 01/04/23 08:24	Analyzed	Dil Fac
(GRO)-C6-C10	1010	C C				0 110 1120 0012 1	0 1/0 1/20 10110	
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 19:45	1
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/04/23 08:24	01/04/23 19:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			01/04/23 08:24	01/04/23 19:45	1
o-Terphenyl	96		70 - 130			01/04/23 08:24	01/04/23 19:45	1
Method: MCAWW 300.0 - Anions	Ion Chromato	ography - Se	oluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-3727-2 Matrix: Solid 5

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

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-3727-1	BH01	89	84	
890-3727-2	BH01A	108	106	
890-3738-A-1-E MS	Matrix Spike	99	105	
890-3738-A-1-F MSD	Matrix Spike Duplicate	105	109	
LCS 880-43171/1-A	Lab Control Sample	104	106	
LCSD 880-43171/2-A	Lab Control Sample Dup	102	107	
MB 880-43171/5-A	Method Blank	99	105	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
ole ID	Client Sample ID	(70-130)	(70-130)	
	BH01	118	105	
-2	BH01A	105	96	
-A-1-B MS	Matrix Spike	103	81	
-1-C MSD	Matrix Spike Duplicate	101	79	
112/2 - A	Lab Control Sample	113	93	
0-43112/3-A	Lab Control Sample Dup	112	92	
43112/1-A	Method Blank	121	114	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

ob ID: 890-3727-1

Page 164 of 244

Job ID: 890-3727-1 SDG: 03E1558142

Prep Type: Total/NA

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43171/5-A Matrix: Solid

Analysis Batch: 43326

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/04/23 14:24	01/06/23 11:51	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			01/04/23 14:24	01/06/23 11:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130			01/04/23 14:24	01/06/23 11:51	1

Lab Sample ID: LCS 880-43171/1-A Matrix: Solid

Analysis Batch: 43326

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07559		mg/Kg		76	70 - 130	
Toluene	0.100	0.07256		mg/Kg		73	70 - 130	
Ethylbenzene	0.100	0.07155		mg/Kg		72	70 - 130	
m-Xylene & p-Xylene	0.200	0.1466		mg/Kg		73	70 - 130	
o-Xylene	0.100	0.07250		mg/Kg		73	70 - 130	

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

Lab Sample ID: LCSD 880-43171/2-A

Matrix: Solid

Analysis Batch: 43326							Prep	Batch:	43171
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07746		mg/Kg		77	70 - 130	2	35
Toluene	0.100	0.07295		mg/Kg		73	70 - 130	1	35
Ethylbenzene	0.100	0.07137		mg/Kg		71	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1500		mg/Kg		75	70 - 130	2	35
o-Xylene	0.100	0.07359		mg/Kg		74	70 - 130	1	35

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

Lab Sample ID: 890-3738-A-1-E MS

Matrix: Solid alveie Ratch: 42220

Analysis Batch: 43326									Prep	Batch: 43171
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.09220		mg/Kg		92	70 - 130	
Toluene	<0.00201	U	0.100	0.08852		mg/Kg		88	70 - 130	

Carlsbad

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 43171

	Eurofin	s

Client Sample ID: Matrix Spike

QC Sample Results

MS MS

0.08473

0.1759

0.08390

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.100

0.200

0.100

Limits 70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

Lab Sample ID: 890-3738-A-1-E MS

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 43326

Sample Sample

<0.00201

<0.00402 U

<0.00201 U

%Recovery

Result Qualifier

U

MS MS

99

105

109

Qualifier

7

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

Client Sample ID: Method Blank

01/04/23 09:14

01/04/23 09:14

Client Sample ID: Lab Control Sample

01/04/23 08:24

01/04/23 08:24

Prep Type: Total/NA

Prep Batch: 43112

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

85

88

84

D

Matrix: Solid Analysis Batch: 43326

1,4-Difluorobenzene (Surr)

Lab Sample ID: 890-3738-A-1-F MSD

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 43326									Prep	Batch:	43171	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00201	U	0.0990	0.1018		mg/Kg		103	70 - 130	10	35	
Toluene	<0.00201	U	0.0990	0.09453		mg/Kg		95	70 - 130	7	35	ī
Ethylbenzene	<0.00201	U	0.0990	0.09255		mg/Kg		93	70 - 130	9	35	
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1923		mg/Kg		97	70 - 130	9	35	ï
o-Xylene	<0.00201	U	0.0990	0.09249		mg/Kg		93	70 - 130	10	35	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	105		70 - 130									

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

Lab Sample ID: MB 880-43112/1-A Matrix: Solid Analysis Batch: 43104

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 09:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 09:14	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/04/23 08:24	01/04/23 09:14	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

1-Chlorooctane	121	
o-Terphenyl	114	
_		

Lab Sample ID: LCS 880-43112/2-A Matrix: Solid - 14 and a Distant

Analysis Batch: 43104							Prep E	Batch: 43112
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	937.8		mg/Kg		94	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	851.1		mg/Kg		85	70 - 130	
C10-C28)								

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 43171

1

1

QC Sample Results

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

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

	1
Job ID: 890-3727-1 SDG: 03E1558142	2
	3
Client Sample ID: Lab Control Sample Prep Type: Total/NA Prep Batch: 43112	4
Flep Batch: 45112	5

Lab Sample ID: LCS 880-43112 Matrix: Solid Analysis Batch: 43104	2/2-A						Client	: Sample		ontrol Sa ype: To Batch:	tal/NA
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	93		70 - 130								
Lab Sample ID: LCSD 880-431 Matrix: Solid Analysis Batch: 43104	12/3-A					Clier	nt Sam	nple ID:	Prep	I Sampl ype: To Batch:	tal/NA 43112
			Spike		LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	957.7		mg/Kg		96	70 - 130	2	20
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)			1000	876.0		mg/Kg		88	70 - 130	3	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	112		70 - 130								
o-Terphenyl	92		70 - 130								
Lab Sample ID: 890-3753-A-1-I	BMS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 43104									Prep	Batch:	43112
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U	999	960.7		mg/Kg		94	70 - 130		
(GRO)-C6-C10	10.0								70 100		
Diesel Range Organics (Over	<49.9	U	999	799.8		mg/Kg		80	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	103		70 - 130								
o-Terphenyl	81		70 - 130								
Lab Sample ID: 890-3753-A-1-	C MSD					Cli	ent Sa	ample ID): Matrix Sp		
Matrix: Solid										ype: To	
Analysis Batch: 43104	0	0	0							Batch:	
America		Sample	Spike		MSD	1114	_	0/ D	%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	0	999	965.7		mg/Kg		95	70 - 130	1	20
Diesel Range Organics (Over	<49.9	U	999	788.5		mg/Kg		79	70 - 130	1	20
C10-C28)						5 5		-			-
	MSD	MSD									
Surrogate			Limits								
1-Chlorooctane	101		70 - 130								
	,51										

79 70 - 130 o-Terphenyl

Client: Ensolum

QC Sample Results

Job ID: 890-3727-1 SDG: 03E1558142

Project/Site: PLU 21 Brushy Draw 125H

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43076/1-A											Client	Sample ID		
Matrix: Solid												Pre	p Type: S	Soluble
Analysis Batch: 43096														
		MB N												
Analyte			Qualifier		RL		Unit		D	P	repared	Anal		Dil Fa
Chloride	<	<5.00 L	U		5.00		mg/Kg					01/04/2	3 05:18	
Lab Sample ID: LCS 880-43076/2-A									Cli	ent	Sampl	e ID: Lab	Control S	Sample
Matrix: Solid												Pre	p Type: S	Solubl
Analysis Batch: 43096														
				Spike	LC	LCS						%Rec		
Analyte				Added	Resu	t Quali	ifier	Unit		D	%Rec	Limits		
Chloride				250	262.	3		mg/Kg		_	105	90 _ 110		
Lab Sample ID: LCSD 880-43076/3-	A							Cli	ient S	Sam	ple ID:	Lab Cont	rol Samp	ole Du
Matrix: Solid													p Type: S	
Analysis Batch: 43096														
				Spike	LCS	LCSE	כ					%Rec		RPI
Analyte				Spike Added		t Quali		Unit		D	%Rec	%Rec Limits	RPD	
-				•		t Qual		Unit mg/Kg		<u>D</u>	%Rec 106		_ RPD 1	Limi
Chloride				Added	Resu	t Qual				<u>D</u>	106	Limits 90 - 110	1	RPI
Chloride Lab Sample ID: 890-3727-2 MS				Added	Resu	t Qual				<u>D</u>	106	Limits 90 - 110	nple ID:	Lim 2 BH01/
Chloride Lab Sample ID: 890-3727-2 MS Matrix: Solid				Added	Resu	t Qual				D	106	Limits 90 - 110	1	Limi 21 BH01/
Chloride Lab Sample ID: 890-3727-2 MS Matrix: Solid	Sample	Sampl		Added	Resu	t Quali				<u>D</u>	106	Limits 90 - 110	nple ID:	Limi 21 BH01/
Chloride Lab Sample ID: 890-3727-2 MS Matrix: Solid Analysis Batch: 43096	Sample Result			Added 250	Resu 264.	t Quali	ifier			D	106	Limits 90 - 110 Client Sar Pre	nple ID:	Limi 20 BH01/
Chloride Lab Sample ID: 890-3727-2 MS Matrix: Solid Analysis Batch: 43096 Analyte		Qualifi		Added 250 Spike	Resu 264. M Resu	t Quali	ifier	mg/Kg		_	106	Limits 90 - 110 Client Sar Pre %Rec	nple ID:	Limi 21 BH01/
Chloride Lab Sample ID: 890-3727-2 MS Matrix: Solid Analysis Batch: 43096 Analyte Chloride	Result	Qualifi		Added 250 Spike Added	Resu 264. M Resu	t Quali	ifier	mg/Kg		_	106 %Rec 116	Limits 90 - 110 Client Sar Pre %Rec Limits 90 - 110	1 nple ID: p Type: \$ 	Lim 2 BH01/ Solubl
Chloride Lab Sample ID: 890-3727-2 MS Matrix: Solid Analysis Batch: 43096 Analyte Chloride Lab Sample ID: 890-3727-2 MSD	Result	Qualifi		Added 250 Spike Added	Resu 264. M Resu	t Quali	ifier	mg/Kg		_	106 %Rec 116	Limits 90 - 110 Client Sar Pre %Rec Limits 90 - 110 Client Sar	nple ID: p Type: \$ nple ID:	Lim 2 BH01/ Solubl
Chloride Lab Sample ID: 890-3727-2 MS Matrix: Solid Analysis Batch: 43096 Analyte Chloride Lab Sample ID: 890-3727-2 MSD Matrix: Solid	Result	Qualifi		Added 250 Spike Added	Resu 264. M. Resu	t Quali	ifier	mg/Kg		_	106 %Rec 116	Limits 90 - 110 Client Sar Pre %Rec Limits 90 - 110 Client Sar	1 nple ID: p Type: \$ 	Lim 2 BH01/ Solubl
Chloride Lab Sample ID: 890-3727-2 MS Matrix: Solid Analysis Batch: 43096 Analyte Chloride Lab Sample ID: 890-3727-2 MSD Matrix: Solid	Result 477	Qualifi F1	ier	Added 250 Spike Added	Resu 264. M. Resu	t Quali	ifier	mg/Kg		_	106 %Rec 116	Limits 90 - 110 Client Sar Pre %Rec Limits 90 - 110 Client Sar	nple ID: p Type: \$ nple ID:	Lim 2 BH01/ Solubl BH01/ Solubl
Analyte Chloride Lab Sample ID: 890-3727-2 MS Matrix: Solid Analysis Batch: 43096 Analyte Chloride Lab Sample ID: 890-3727-2 MSD Matrix: Solid Analysis Batch: 43096 Analyte	Result	Qualifi F1	ier	Added 250 Spike Added 248	<u>Resu</u> 264. М. <u>Resu</u> 763.	MS MS t Quali F1	ifier	mg/Kg		_	106 %Rec 116	Limits 90 - 110 Client Sar Pre %Rec Limits 90 - 110 Client Sar Pre	nple ID: p Type: \$ nple ID:	Limi 20 BH01/ Soluble BH01/

QC Association Summary

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

5

Job ID: 890-3727-1 SDG: 03E1558142

GC VOA

Prep Batch: 43171

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3727-1	BH01	Total/NA	Solid	5035	
890-3727-2	BH01A	Total/NA	Solid	5035	
MB 880-43171/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3738-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3727-1	BH01	Total/NA	Solid	8021B	43171
890-3727-2	BH01A	Total/NA	Solid	8021B	43171
MB 880-43171/5-A	Method Blank	Total/NA	Solid	8021B	43171
LCS 880-43171/1-A	Lab Control Sample	Total/NA	Solid	8021B	43171
LCSD 880-43171/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43171
890-3738-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43171
890-3738-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43171

Analysis Batch: 43423

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3727-1	BH01	Total/NA	Solid	Total BTEX	
890-3727-2	BH01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3727-1	BH01	Total/NA	Solid	8015B NM	43112
890-3727-2	BH01A	Total/NA	Solid	8015B NM	43112
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015B NM	43112
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43112
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43112
890-3753-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	43112
890-3753-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43112

Prep Batch: 43112

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3727-1	BH01	Total/NA	Solid	8015NM Prep	
890-3727-2	BH01A	Total/NA	Solid	8015NM Prep	
MB 880-43112/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43112/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43112/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3753-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3753-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43234

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3727-1	BH01	Total/NA	Solid	8015 NM	
890-3727-2	BH01A	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H Job ID: 890-3727-1 SDG: 03E1558142

HPLC/IC

Leach Batch: 43076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3727-1	BH01	Soluble	Solid	DI Leach	
390-3727-2	BH01A	Soluble	Solid	DI Leach	
/IB 880-43076/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-43076/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
.CSD 880-43076/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-3727-2 MS	BH01A	Soluble	Solid	DI Leach	
890-3727-2 MSD	BH01A	Soluble	Solid	DI Leach	

Analysis Batch: 43096

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3727-1	BH01	Soluble	Solid	DI Leach	
390-3727-2	BH01A	Soluble	Solid	DI Leach	
//B 880-43076/1-A	Method Blank	Soluble	Solid	DI Leach	
.CS 880-43076/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-43076/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-3727-2 MS	BH01A	Soluble	Solid	DI Leach	
390-3727-2 MSD nalysis Batch: 43096	BH01A	Soluble	Solid	DI Leach	
		Soluble	Solid	DI Leach	
nalysis Batch: 43096 .ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
nalysis Batch: 43096 ab Sample ID 190-3727-1	Client Sample ID BH01	Prep Type Soluble	Matrix Solid	<u>Method</u> 300.0	43076
nalysis Batch: 43096 ab Sample ID 90-3727-1 90-3727-2	Client Sample ID BH01 BH01A	Prep Type Soluble Soluble	Matrix Solid Solid	Method 300.0 300.0	43076 43076
nalysis Batch: 43096 Lab Sample ID 190-3727-1 190-3727-2 //B 880-43076/1-A	Client Sample ID BH01 BH01A Method Blank	Prep Type Soluble Soluble Soluble	Matrix Solid Solid Solid	Method 300.0 300.0 300.0	43076 43076 43076
Lab Sample ID 390-3727-1 390-3727-2 MB 880-43076/1-A _CS 880-43076/2-A	Client Sample ID BH01 BH01A Method Blank Lab Control Sample	Prep Type Soluble Soluble Soluble Soluble	Matrix Solid Solid Solid Solid Solid	Method 300.0 300.0 300.0 300.0 300.0 300.0	43076 43076 43076 43076
nalysis Batch: 43096 Lab Sample ID 390-3727-1 390-3727-2 MB 880-43076/1-A	Client Sample ID BH01 BH01A Method Blank	Prep Type Soluble Soluble Soluble	Matrix Solid Solid Solid	Method 300.0 300.0 300.0	43076 43076 43076

Project/Site: PLU 21 Brushy Draw 125H

Job ID: 890-3727-1 SDG: 03E1558142

Lab Sample ID: 890-3727-1

Lab Sample ID: 890-3727-2

Matrix: Solid

Date Collected: 12/29/22 13:20 Date Received: 12/30/22 09:30

Client Sample ID: BH01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43326	01/06/23 15:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43423	01/06/23 15:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			43234	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 19:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	43076	01/03/23 12:06	KS	EET MID
Soluble	Analysis	300.0		10			43096	01/04/23 06:34	СН	EET MID

Client Sample ID: BH01A Date Collected: 12/29/22 13:45

Date Received: 12/30/22 09:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43171	01/04/23 14:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43326	01/06/23 14:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43423	01/06/23 15:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			43234	01/05/23 10:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43112	01/04/23 08:24	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43104	01/04/23 19:45	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	43076	01/03/23 12:06	KS	EET MID
Soluble	Analysis	300.0		1			43096	01/04/23 06:38	СН	EET MID

Laboratory References:

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

Matrix: Solid

5 6 9

	1	Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: PLU 21 Bri	ushy Draw 125H			Job ID: 890-3727-1 SDG: 03E1558142	2
Laboratory: Eurofin Unless otherwise noted, all ar		ere covered under each acc	reditation/certification below.		
Authority	F	rogram	Identification Number	Expiration Date	
Texas The following analytes a		IELAP but the laboratory is not certif	T104704400-22-25	06-30-23 av include analytes for which	5
the agency does not off Analysis Method	er certification. Prep Method	Matrix	Analyte		
8015 NM Total BTEX		Solid Solid	Total TPH Total BTEX		
					8
					9
					10
					13

Project/Site: PLU 21 Brushy Draw 125H

Client: Ensolum

Job ID: 890-3727-1 SDG: 03E1558142

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
lotal BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H Job ID: 890-3727-1 SDG: 03E1558142

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3727-1	BH01	Solid	12/29/22 13:20	12/30/22 09:30	1
890-3727-2	BH01A	Solid	12/29/22 13:45	12/30/22 09:30	3

Released to Imaging: 2/18/2025 11:05:31 AM

Notce: Signature of this document and relinqui of service. Eurofins Xenco will be lable only for of Eurofins Xenco. A minimum charge of 585.00 Beyinquished by: (Signature)	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		Sample Identification BiHOI BiHOIA	32. MC Intact: eals: Seals:	Project Name: PLU 21 B Project Number: D3ELE		Address: 3122 City, State ZIP: Carlsic	0 0	the eurofins
ishment of samples constitutes a valid purchase order from clie the cost of samples and shall not assume any responsibility for owill be applied to each project and a charge of 55 for each sar Received by: (Signature)	8RCR		Matrix Sampled Sampled Depth SIZ/29/22 1320 1' SIZ/29/22 1345 3'	3.8833 Due Date: 2773 TAT starts the day received by 4 The lab, if received by 4 (Nes) No Wet Ice: (Yes) No Wet Ice: Thermometer ID: NO Correction Factor: -0 Temperature Reading: - Corrected Temperature: 1 -	DISEI558142 MRoutine Rush	Email:	3122 Nat'l Parks Hwy Address: Carlsback NM 88220 City, State ZIP:	Jennings	Environment Testing Xenco
Notice: Signature of this document and relinquishment of samples constitutes a viild purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service: Eurofins Xenco. Will be lable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. but not analyzed. These terms will be enforced unless previously negotiated. Definquished by: Signature) Received by: Oate/Time Relinquished by: Signature) Re 3 WWWW WWWW WWWW WWWW Relinquished by: Signature) Re 3 WWWW WWWW WWWW WWWW Re Relinquished by: Signature) Re 3 WWWW WWWW WWWW WWWW Re Re Re 4 WWWW WWWW WWWW Re Re Re Re Re	A 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mi TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni		Grab/ #of Grab/ #of Grad BT XX TP	Parameters	ANALYSIS REQ	nincis	SIDA E G	10 Energy	Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
rd terms and conditions ces beyond the control d unless previously negotiated.	I I	Cost Centeri Ibbeb431001	Sample Comments	Chain of Custody	REQUEST Preservative Codes	Deliverables: EDD ADaPT Other:	State of Project: Reporting: Level II Level II Level III	Work Order Comments Program: UST/PST PRP Brownfields	Work Order No:

1/6/2023

5

13

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3727 List Number: 1 Creator: Clifton, Cloe

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

List Source: Eurofins Carlsbad

Eurofins Carlsbad Released to Imaging: 2/18/2025 11:05:31 AM

Page 20 of 21

1/6/2023

Job Number: 890-3727-1 SDG Number: 03E1558142

List Source: Eurofins Midland

List Creation: 01/03/23 09:51 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3727 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Received by OCD: 2/12/2025 1:55:23 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 1/9/2023 3:32:51 PM

JOB DESCRIPTION

PLU 21 Brushy Draw 125H SDG NUMBER 03E1558142

JOB NUMBER

890-3754-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.

Received by OCD: 2/12/2025 1:55:23 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 1/9/2023 3:32:51 PM

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

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2

Laboratory Job ID: 890-3754-1

Table of Contents

Cover Page	1		
Table of Contents	3		
Definitions/Glossary	4		
Case Narrative	5		
Client Sample Results	6		
Surrogate Summary	8		
QC Sample Results	9		
QC Association Summary	13		
Lab Chronicle	15		
Certification Summary	16		
Method Summary	17		
Sample Summary	18		
Chain of Custody	19		
Receipt Checklists	20		
	Definitions/Glossony		4
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	Definitions/Glossary		
Client: Ensc		Job ID: 890-3754-1 SDG: 03E1558142	
Ploject/Site.	PLU 21 Brushy Draw 125H	5DG. 03E 1000142	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
*_	LCS and/or LCSD is outside acceptance limits, low biased.		
*1	LCS/LCSD RPD exceeds control limits.		5
F1	MS and/or MSD recovery exceeds control limits.		
F2	MS/MSD RPD exceeds control limits		
S1-	Surrogate recovery exceeds control limits, low biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi V	A		
Qualifier	Qualifier Description		8
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			g
Qualifier	Qualifier Description		
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control lin	nits are not	
_	applicable.		
E	Result exceeded calibration range.		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
a =			

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

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Page 182 of 244

Job ID: 890-3754-1 SDG: 03E1558142

Job ID: 890-3754-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3754-1

Receipt

The samples were received on 12/30/2022 1:48 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS03 (890-3754-1) and FS04 (890-3754-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43278 and analytical batch 880-43470 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-3757-A-1-B). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-43226 and analytical batch 880-43376 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Chloride in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-43226 and analytical batch 880-43376 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Project/Site: PLU 21 Brushy Draw 125H

Job ID: 890-3754-1 SDG: 03E1558142

Matrix: Solid

5

Client Sample ID: FS03

Date Collected: 12/30/22 09:10 Date Received: 12/30/22 13:48

Sample Depth: 0.5

Client: Ensolum

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U F2 F1 *-	0.00201	mg/Kg		01/05/23 14:02	01/09/23 12:22	1
		*1						
Toluene	<0.00201	U F2 F1	0.00201	mg/Kg		01/05/23 14:02	01/09/23 12:22	1
Ethylbenzene	<0.00201	U F2 F1	0.00201	mg/Kg		01/05/23 14:02	01/09/23 12:22	1
m-Xylene & p-Xylene	<0.00402	U F2 F1	0.00402	mg/Kg		01/05/23 14:02	01/09/23 12:22	1
o-Xylene	<0.00201	U F2 F1	0.00201	mg/Kg		01/05/23 14:02	01/09/23 12:22	1
Xylenes, Total	<0.00402	U F2 F1	0.00402	mg/Kg		01/05/23 14:02	01/09/23 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			01/05/23 14:02	01/09/23 12:22	1
1,4-Difluorobenzene (Surr)	95		70 - 130			01/05/23 14:02	01/09/23 12:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation Analyte Result Qualifier

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/09/23 14:58	1	

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (G	C)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	246		49.8	mg/Kg			01/06/23 13:03	1	
_									

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		01/05/23 11:23	01/06/23 02:33	1
(GRO)-C6-C10								
Diesel Range Organics (Over	246		49.8	mg/Kg		01/05/23 11:23	01/06/23 02:33	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/05/23 11:23	01/06/23 02:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			01/05/23 11:23	01/06/23 02:33	1
o-Terphenyl	117		70 - 130			01/05/23 11:23	01/06/23 02:33	1

Method: MCAWW 300.0 - Anions, lo	on Chromato	graphy - So	luble	RL Unit D Prepared Analyzed Dil Fac				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2760		25.0	mg/Kg			01/06/23 23:53	5

Client Sample ID: FS04

Date Collected: 12/30/22 09:20

Date Received: 12/30/22 13:48

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.0401	U *- *1	0.0401	mg/Kg		01/05/23 14:02	01/09/23 14:45	20
Toluene	<0.0401	U	0.0401	mg/Kg		01/05/23 14:02	01/09/23 14:45	20
Ethylbenzene	<0.0401	U	0.0401	mg/Kg		01/05/23 14:02	01/09/23 14:45	20
m-Xylene & p-Xylene	<0.0802	U	0.0802	mg/Kg		01/05/23 14:02	01/09/23 14:45	20
o-Xylene	0.0492		0.0401	mg/Kg		01/05/23 14:02	01/09/23 14:45	20
Xylenes, Total	<0.0802	U	0.0802	mg/Kg		01/05/23 14:02	01/09/23 14:45	20

Eurofins Carlsbad

Lab Sample ID: 890-3754-1

Released to Imaging: 2/18/2025 11:05:31 AM

 Image: Property of the system
 Analyzed
 Dil Fac

 01/06/23 23:53
 5

 Lab Sample ID: 890-3754-2

Matrix: Solid

Project/Site: PLU 21 Brushy Draw 125H

Client Sample Results

Job ID: 890-3754-1 SDG: 03E1558142

Client Sample ID: FS04

Date Collected: 12/30/22 09:20

Date Received: 12/30/22 13:48 Sample Depth: 0.5

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/05/23 14:02	01/09/23 14:45	20
1,4-Difluorobenzene (Surr)	78		70 - 130			01/05/23 14:02	01/09/23 14:45	20
Method: TAL SOP Total BTEX - T	otal BTEX Calo	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0802	U	0.0802	mg/Kg			01/09/23 15:23	1
Method: SW846 8015 NM - Diese	I Range Organ	ics (DRO) (GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2960		50.0	mg/Kg			01/06/23 13:03	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	106		50.0	mg/Kg		01/05/23 11:23	01/06/23 02:54	1
Diesel Range Organics (Over	2850		50.0	mg/Kg		01/05/23 11:23	01/06/23 02:54	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/05/23 11:23	01/06/23 02:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	126		70 - 130			01/05/23 11:23	01/06/23 02:54	1
o-Terphenyl	117		70 - 130			01/05/23 11:23	01/06/23 02:54	1
Method: MCAWW 300.0 - Anions	, Ion Chromato	ography - So	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5340		25.0	mg/Kg			01/06/23 23:59	5

Lab Sample ID: 890-3754-2

Matrix: Solid

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

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ample ID	Client Sample ID	(70-130)	(70-130)	
-1	FS03	101	95	
754-1 MS	FS03	112	108	
3754-1 MSD	FS03	108	97	
754-2	FS04	108	78	
80-43278/1-A	Lab Control Sample	97	3 S1-	
) 880-43278/2-A	Lab Control Sample Dup	98	104	
80-43278/5-A	Method Blank	99	105	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
3754-1	FS03	126	117	
3754-2	FS04	126	117	
-3757-A-1-C MS	Matrix Spike	112	85	
57-A-1-D MSD	Matrix Spike Duplicate	114	88	
)-43251/2-A	Lab Control Sample	104	98	
) 880-43251/3-A	Lab Control Sample Dup	118	110	
80-43251/1-A	Method Blank	113	109	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-3754-1 SDG: 03E1558142

Prep Type: Total/NA

5 6 7

> 12 13

Page 185 of 244

Client: Ensolum

Job ID: 890-3754-1 SDG: 03E1558142

Project/Site: PLU 21 Brushy Draw 125H

Mothod: 2021B Volatila 0 C . de

Lab Sample ID: MB 880-4327	78/ 5-A							Client S	ample ID: Met	nod Bla	nk
Matrix: Solid									Prep Type		
Analysis Batch: 43470									Prep Bat		
	МВ	MB									
Analyte	Result	Qualifier		RL	Unit		D	Prepared	Analyzed	Dil I	Fac
Benzene	<0.00200	U	0.002	200	mg/K	g	01	/05/23 14:02	01/09/23 11:53		1
Toluene	<0.00200	U	0.002	200	mg/K	g	01	/05/23 14:02	01/09/23 11:53		1
Ethylbenzene	<0.00200	U	0.002	200	mg/K	g	01	/05/23 14:02	01/09/23 11:53		1
m-Xylene & p-Xylene	<0.00400	U	0.004	100	mg/K	g	01	/05/23 14:02	01/09/23 11:53		1
o-Xylene	<0.00200	U	0.002	200	mg/K	g	01	/05/23 14:02	01/09/23 11:53		1
Xylenes, Total	<0.00400	U	0.004	400	mg/K	g	01	/05/23 14:02	01/09/23 11:53		1
	MB	МВ									
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil I	Fac
4-Bromofluorobenzene (Surr)	99		70 - 13	0			01	/05/23 14:02	01/09/23 11:53	}	1
1,4-Difluorobenzene (Surr)	105		70 - 13	0			01	/05/23 14:02	01/09/23 11:53	}	1
Lab Sample ID: LCS 880-432 Matrix: Solid Analysis Batch: 43470	278/1-A		Spike	102	LCS		Clier	nt Sample	ID: Lab Contr Prep Type Prep Bat %Rec	: Total/I	NA
Anglista			-			11		0/ Doo			
Analyte Benzene			Added	<0.00200	Qualifier	Unit mg/Kg	D	0.01	Limits		
Toluene			0.100	0.09058	0 -			91	70 - 130 70 - 130		
Ethylbenzene			0.100	0.09058		mg/Kg mg/Kg		91 89	70 - 130 70 - 130		
m-Xylene & p-Xylene			0.200	0.1816		mg/Kg		91	70 - 130		
o-Xylene			0.200	0.08741		mg/Kg		87	70 - 130		
0-Xylene			0.100	0.00741		iiig/itg		07	70 - 150		
	LCS LCS	6									
Surrogate	%Recovery Qua	lifier	Limits								
4-Bromofluorobenzene (Surr)	97		70 - 130								
1,4-Difluorobenzene (Surr)	3 S1-		70 - 130								
Lab Sample ID: LCSD 880-43	3278/2-A					CI	ient Sa	mple ID: L	ab Control Sa	mple D	up
Matrix: Solid									Prep Type	: Total/I	NA
Analysis Batch: 43470									Prep Bat	ch: 432	78
			Spike	LCSD	LCSD				%Rec	R	RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits F	PD Li	imit
Benzene			0.100	0.09786	*1	mg/Kg		98	70 - 130	200	35
Toluene			0.100	0.09409		mg/Kg		94	70 - 130	4	35
Ethylbenzene			0.100	0.09315		mg/Kg		93	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.1927		mg/Kg		96	70 - 130	6	35
o-Xylene			0.100	0.09182		mg/Kg		92	70 - 130	5	35
	LCSD LCS	SD									
Surrogate	%Recovery Qua	lifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								

1,4-Difluorobenzene (Surr)	104		70 - 130							
Lab Sample ID: 890-3754-1 MS										mple ID: FS03
Matrix: Solid										Type: Total/NA
Analysis Batch: 43470									Prep	Batch: 43278
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U F2 F1 *-	0.101	0.002879	F1	mg/Kg		2	70 - 130	

*1

QC Sample Results

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

Lab Sample ID: 890-3754-1 MS

Analysis Batch: 43470

4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

Toluene

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Method: 8021B - Volatile Organic O

108

ganic Co	mpounds	(GC) (Cont	inued)						
								Client Sample ID: FS03 Prep Type: Total/NA Prep Batch: 43278	
Sample	Sample	Spike	MS	MS				%Rec	5
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
<0.00201	U F2 F1	0.101	0.004331	F1	mg/Kg		4	70 - 130	
<0.00201	U F2 F1	0.101	0.005925	F1	mg/Kg		6	70 - 130	
<0.00402	U F2 F1	0.202	0.005616	F1	mg/Kg		2	70 - 130	7
<0.00201	U F2 F1	0.101	0.01014	F1	mg/Kg		9	70 - 130	
	MS								8
%Recovery	Qualifier	Limits							
112		70 - 130							- 9

Lab Sample ID:	890-3754-1	MSD
Matrix: Solid		

Analysis Batch: 43470 Prep Batch: 43278 Spike MSD MSD %Rec RPD Sample Sample Result Qualifier Limit Analyte Added **Result Qualifier** Unit D %Rec Limits RPD Benzene <0.00201 U F2 F1 *-0.0990 <0.00198 U F2 F1 0.1 70 - 130 120 mg/Kg *1 Toluene <0.00201 U F2 F1 0.0990 0.002376 F2 F1 mg/Kg 2 70 - 130 58 <0.00201 U F2 F1 0.0990 0.002880 F2 F1 3 70 - 130 Ethylbenzene 69 mg/Kg m-Xylene & p-Xylene <0.00402 U F2 F1 0.198 <0.00396 U F2 F1 mg/Kg 0.5 70 - 130 77 o-Xylene <0.00201 U F2 F1 0.0990 0.002131 F2 F1 70 - 130 mg/Kg 1 131 MSD MSD

70 - 130

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

						Prep Batch	1: 4325 [°]
MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
<50.0	U	50.0	mg/Kg		01/05/23 11:23	01/05/23 19:47	
<50.0	U	50.0	mg/Kg		01/05/23 11:23	01/05/23 19:47	
<50.0	U	50.0	mg/Kg		01/05/23 11:23	01/05/23 19:47	
MB	МВ						
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
113		70 - 130			01/05/23 11:23	01/05/23 19:47	
109		70 - 130			01/05/23 11:23	01/05/23 19:47	
-A				c	lient Sample I		
	Result <50.0	MB MB Result Qualifier <50.0	MB MB Result Qualifier RL <50.0	MB MB Result Qualifier RL Unit <50.0	MB MB Result Qualifier RL Unit D <50.0	MB MB Result Qualifier RL Unit D Prepared <50.0	MB MB Result Qualifier RL Unit D Prepared Analyzed <50.0

Matrix: Solid Analysis Batch: 43191

Analysis Batch: 43191							Prep B	atch: 43251
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	978.5		mg/Kg		98	70 - 130	
(GRO)-C6-C10								

Job ID: 890-3754-1 SDG: 03E1558142

Client Sample ID: FS03

Prep Type: Total/NA

35

35

35

35

35

QC Sample Results

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

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

Lab Sample ID: LCS 880-43 Matrix: Solid	251/2-A						Client	Sample	ID: Lab Co Prep 1	ontrol Sa Type: To	
Analysis Batch: 43191										Batch:	
Analysis Datch: 43131			Spike	1.09	LCS				%Rec	Daten.	4323
Analyta			Added			11	~	0/ Dee			
Analyte					Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics (Over C10-C28)			1000	924.6		mg/Kg		92	70 _ 130		
Surromoto	LCS %Recovery	LCS Qualifier	Limits								
Surrogate 1-Chlorooctane		Quanner	70 - 130								
o-Terphenyl	98		70 - 130								
	30		70 - 750								
Lab Sample ID: LCSD 880-4	43251/3-A					Clier	nt Sam	ple ID:	Lab Contro	l Sampl	e Dup
Matrix: Solid										· Type: To	
Analysis Batch: 43191										Batch:	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1009		mg/Kg		101	70 _ 130	3	20
Diesel Range Organics (Over C10-C28)			1000	999.4		mg/Kg		100	70 - 130	8	20
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	110		70 - 130								
Matrix: Solid Analysis Batch: 43191	Sample	Sample	Spike	MS	MS					Type: To Batch:	
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9		999	750.7		mg/Kg		70	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)	<49.9	U	999	885.9		mg/Kg		87	70 _ 130		
	MS	MS									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	85		70 - 130								
-											
Lab Sample ID: 890-3757-A	-1-D MSD					CI	ient Sa	ample II	D: Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep 1	Type: To	tal/NA
Analysis Batch: 43191									Prep	Batch:	43251
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	826.1		mg/Kg		78	70 - 130	10	20
(GRO)-C6-C10				010.0				~~~	70 100	~	
Diesel Range Organics (Over C10-C28)	<49.9	U	999	913.9		mg/Kg		90	70 _ 130	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

ounogato	, and could be ready	quanner	Emito
1-Chlorooctane	114		70 - 130
o-Terphenyl	88		70 - 130

Eurofins Carlsbad

5

Client: Ensolum

QC Sample Results

Job ID: 890-3754-1 SDG: 03E1558142

Project/Site: PLU 21 Brushy Draw 125H Method: 300.0 - Anions, Ion Chromatography

· · · ·														
Lab Sample ID: MB 880-43226/1-A											Client S	Sample ID:		
Matrix: Solid												Prep	Type: So	DIUDIE
Analysis Batch: 43376														
	_	MB							_	_			-	
Analyte			Qualifier		RL			nit	D	P	repared	Analy		Dil Fac
Chloride	•	<5.00	U		5.00		mę	g/Kg				01/06/23	22:14	1
 Lab Sample ID: LCS 880-43226/2-A									Cli	ent	Sample	D: Lab C	ontrol Sa	ample
Matrix: Solid													Type: So	
Analysis Batch: 43376														
-				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifie	er Unit		D	%Rec	Limits		
Chloride				250		256.5		mg/Kg		_	103	90 - 110		
- Lab Sample ID: LCSD 880-43226/3-	Δ							CI	ient S	am	ple ID:	Lab Contro	ol Sampl	e Dun
Matrix: Solid													Type: So	
Analysis Batch: 43376													.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				Spike		LCSD	LCSD					%Rec		RPD
Analyte				Added		Result	Qualifie	er Unit		D	%Rec	Limits	RPD	Limit
Chloride				250		265.6		mg/Kg		_	106	90 _ 110	3	20
Lab Sample ID: 890-3754-2 MS												Client Sa	mple ID:	FS04
Matrix: Solid													Type: So	
Analysis Batch: 43376													3 1	
	Sample	Samp	ole	Spike		MS	MS					%Rec		
Analyte	Result	Quali	fier	Added		Result	Qualifie	er Unit		D	%Rec	Limits		
Chloride	5340			1250		7588	E 4	mg/Kg		_	180	90 - 110		
Lab Cample ID: 000 0754 0 MOD												Client Sa	mple ID:	FS04
Lap Sample ID: 890-3754-2 MSD														
Lab Sample ID: 890-3754-2 MSD Matrix: Solid												Prep	Ivpe: Se	JUDIE
Matrix: Solid												Prep	Type: So	Diubie
the second s	Sample	Samp	ble	Spike		MSD	MSD					Prep %Rec	Type: So	
Matrix: Solid	Sample Result			Spike Added			MSD Qualifie	er Unit		D	%Rec		RPD	RPD Limit

QC Association Summary

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H

5

Job ID: 890-3754-1 SDG: 03E1558142

GC VOA

Prep Batch: 43278

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3754-1	FS03	Total/NA	Solid	5035	
890-3754-2	FS04	Total/NA	Solid	5035	
MB 880-43278/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43278/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43278/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3754-1 MS	FS03	Total/NA	Solid	5035	
890-3754-1 MSD	FS03	Total/NA	Solid	5035	

Analysis Batch: 43470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3754-1	FS03	Total/NA	Solid	8021B	43278
890-3754-2	FS04	Total/NA	Solid	8021B	43278
MB 880-43278/5-A	Method Blank	Total/NA	Solid	8021B	43278
LCS 880-43278/1-A	Lab Control Sample	Total/NA	Solid	8021B	43278
LCSD 880-43278/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43278
890-3754-1 MS	FS03	Total/NA	Solid	8021B	43278
890-3754-1 MSD	FS03	Total/NA	Solid	8021B	43278

Analysis Batch: 43569

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3754-1	FS03	Total/NA	Solid	Total BTEX	
890-3754-2	FS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 43191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3754-1	FS03	Total/NA	Solid	8015B NM	43251
890-3754-2	FS04	Total/NA	Solid	8015B NM	43251
MB 880-43251/1-A	Method Blank	Total/NA	Solid	8015B NM	43251
LCS 880-43251/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43251
LCSD 880-43251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43251
890-3757-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	43251
890-3757-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43251

Prep Batch: 43251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3754-1	FS03	Total/NA	Solid	8015NM Prep	
890-3754-2	FS04	Total/NA	Solid	8015NM Prep	
MB 880-43251/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43251/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-43251/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3757-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3757-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43395

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3754-1	FS03	Total/NA	Solid	8015 NM	
890-3754-2	FS04	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H Job ID: 890-3754-1 SDG: 03E1558142

Page 191 of 244

HPLC/IC

Leach Batch: 43226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3754-1	FS03	Soluble	Solid	DI Leach	
890-3754-2	FS04	Soluble	Solid	DI Leach	
MB 880-43226/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43226/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43226/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3754-2 MS	FS04	Soluble	Solid	DI Leach	
890-3754-2 MSD	FS04	Soluble	Solid	DI Leach	

Analysis Batch: 43376

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-3754-1	FS03	Soluble	Solid	DI Leach	
90-3754-2	FS04	Soluble	Solid	DI Leach	
/IB 880-43226/1-A	Method Blank	Soluble	Solid	DI Leach	
.CS 880-43226/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
.CSD 880-43226/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
90-3754-2 MS	FS04	Soluble	Solid	DI Leach	
990-3754-2 MS 990-3754-2 MSD nalysis Batch: 43376	FS04	Soluble Soluble	Solid	DI Leach DI Leach	
90-3754-2 MSD	FS04				
90-3754-2 MSD nalysis Batch: 43376 .ab Sample ID	FS04 Client Sample ID	Soluble Prep Type	Solid Matrix	DI Leach Method	Prep Batch
990-3754-2 MSD nalysis Batch: 43376 .ab Sample ID 190-3754-1	FS04 Client Sample ID FS03	Soluble Prep Type Soluble	Solid <u>Matrix</u> Solid	DI Leach Method 300.0	43226
990-3754-2 MSD nalysis Batch: 43376 .ab Sample ID 190-3754-1 190-3754-2	FS04 Client Sample ID FS03 FS04	Soluble Prep Type Soluble Soluble	Solid Matrix Solid Solid	DI Leach Method 300.0 300.0	43226 43226
990-3754-2 MSD nalysis Batch: 43376 .ab Sample ID 990-3754-1 990-3754-2 /IB 880-43226/1-A	FS04 Client Sample ID FS03 FS04 Method Blank	Soluble Prep Type Soluble Soluble Soluble Soluble	Solid Matrix Solid Solid Solid	DI Leach Method 300.0 300.0 300.0	43226 43226 43226
990-3754-2 MSD nalysis Batch: 43376 .ab Sample ID 190-3754-1 190-3754-2	FS04 Client Sample ID FS03 FS04 Method Blank Lab Control Sample	Soluble Prep Type Soluble Soluble	Solid Matrix Solid Solid	DI Leach Method 300.0 300.0 300.0 300.0	43226 43226 43226 43226 43226
990-3754-2 MSD halysis Batch: 43376 Lab Sample ID 190-3754-1 190-3754-2 /IB 880-43226/1-A .CS 880-43226/2-A	FS04 Client Sample ID FS03 FS04 Method Blank	Soluble Prep Type Soluble Soluble Soluble Soluble Soluble Soluble	Solid Matrix Solid Solid Solid Solid Solid Solid	DI Leach Method 300.0 300.0 300.0	43226 43226 43226

Project/Site: PLU 21 Brushy Draw 125H

Job ID: 890-3754-1 SDG: 03E1558142

Lab Sample ID: 890-3754-1 Matrix: Solid

Date Collected: 12/30/22 09:10 Date Received: 12/30/22 13:48

Client Sample ID: FS03

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	43278	01/05/23 14:02	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43470	01/09/23 12:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43569	01/09/23 14:58	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43395	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	43251	01/05/23 11:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/06/23 02:33	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43226	01/05/23 10:27	KS	EET MID
Soluble	Analysis	300.0		5			43376	01/06/23 23:53	СН	EET MID

Client Sample ID: FS04

Date Collected: 12/30/22 09:20 Date Received: 12/30/22 13:48

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43278	01/05/23 14:02	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43470	01/09/23 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43569	01/09/23 15:23	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43395	01/06/23 13:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	43251	01/05/23 11:23	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43191	01/06/23 02:54	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43226	01/05/23 10:27	KS	EET MID
Soluble	Analysis	300.0		5			43376	01/06/23 23:59	СН	EET MID

Laboratory References:

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

Lab Sample ID: 890-3754-2 Matrix: Solid

		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: PLU 21 Br	rushy Draw 125H			Job ID: 890-3754-1 SDG: 03E1558142	2
Laboratory: Eurofi Unless otherwise noted, all a			raditation/contification holow		
Authority		rogram		Expiration Date	
Texas		ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report b	ut the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for which	5
the agency does not of	•		ied by the governing autionty. This list he		
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					10
					11
					13

Project/Site: PLU 21 Brushy Draw 125H

Client: Ensolum

Page 194 of 244

Job ID: 890-3754-1 SDG: 03E1558142

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Protocol Refe	rences: STM International		
	"Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, M	arch 1983 And Subsequent Revisions	
	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third E	I	
	E TestAmerica Laboratories, Standard Operating Procedure		
	, 1 3		
Laboratory Re	ferences:		
EET MID =	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440	1	

Eurofins Carlsbad

Released to Imaging: 2/18/2025 11:05:31 AM

Sample Summary

Client: Ensolum Project/Site: PLU 21 Brushy Draw 125H Job ID: 890-3754-1 SDG: 03E1558142

Page 195 of 244

Lab Sample ID Client Sample ID Matrix Collected Received Dep	
	Lab Sample ID
890-3754-1 FS03 Solid 12/30/22 09:10 12/30/22 13:48 0.5	890-3754-1
890-3754-2 FS04 Solid 12/30/22 09:20 12/30/22 13:48 0.5	890-3754-2

Released to Imaging: 2/18/2025 11:05:31 AM

	12556	THE R	ate:	Houste Midland, EL Paso Hobbs, Hobbs, Hobbs, Company Name: Company Name: City, State ZIP: City, State ZIP: Kjen	Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (232) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Inferent) Charrett Green XTD Energy Alfferent) XTD SIO4 E Greenc 2JEN: Carlsbad, NM (575) 988-3199 Carlsbad, NM (575) 986-3199 ANA Pres. ANA Pres. ANA	f Custody 100. Dallas. TX (214) 902-0300 1. Lubbock. TX (806) 794-1296 0. Carlsbad, NM (575) 988-3199 0. Carlsbad, NM (575	0300 09-3334 09-3334 00-3199 0	Program: US State of Project: Reporting: Lev Deliverables:	EDD[WW	Dapp PS W Cor
	03E155817		Turn Arr PRoutine	sh	Code					None: h
Intac	32. 109254-10 Mcredith R TempBlank:	eter	e Date: starts the lab, if rec			ذ				Cool: Cool HCL: HC H ₃ SO ;: H ₂ H ₃ PO ;: HP NaHSO ;: NABIS
Sample Custody Seals: Total Containers: Sample Identification	ation Matrix	Corrected Ter Date	α iö	Ly O Depth Grab/ Comp	BTEX TPH	Chioric				Sample Comments
FS03	SS	12/30/22		0.51 0.51 C		A A				nAPP2229145683
										Cost Center 16642100
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo N Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	200.8 / 6020: d Metal(s) to be a	inalyzed TC	RA 13PPM TCLP/SPLF	Texas 11 A 56010 : 8RCF	A 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb N TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	I I I Cd Ca Cr Co Cd Cr Co Cu Pl	Cu Fe Pb Mg 9b Mn Mo Ni Se It assigns standard terms	Ag Mn Mo Ni K i Se Ag TI U	Se	Ag SiO ₂ Na Sr TI Sn U Hg: 1631 / 245.1 / 7470 / 7
er Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated. Requiring unless by: (Signature) Received by: (Signature) Relinquished by: (Signature)	(Signature)	Received by	eceived by (Signature)	ach sample submitte	d to Eurofins Xenco, but no Date/Time	t analyzed. These terms	. These terms will be enforced unless prev Relinquished by: (Signature)	previously negotiate	d. Received by: (Signature)	inature)

1/9/2023

Page 196 of 244

Job Number: 890-3754-1 SDG Number: 03E1558142

List Source: Eurofins Carlsbad

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3754 List Number: 1 Creator: Clifton, Cloe

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

Job Number: 890-3754-1 SDG Number: 03E1558142

List Source: Eurofins Midland

List Creation: 01/04/23 11:29 AM

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 3754 List Number: 2 Creator: Rodriguez, Leticia

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 2/12/2025 1:55:23 PM



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701 Generated 2/22/2023 3:53:00 PM

JOB DESCRIPTION

PLU 21 BD 125H SDG NUMBER 03C1558142

JOB NUMBER

890-4113-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Received by OCD: 2/12/2025 1:55:23 PM

Eurofins Carlsbad

Job Notes

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

Authorization

RAMER

Generated 2/22/2023 3:53:00 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 890-4113-1

SDG: 03C1558142

Page 201 of 244

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23

	Definitions/Glossary		
Client: Ensolum Project/Site: PL		Job ID: 890-4113-1 SDG: 03C1558142	2
Qualifiers			3
GC VOA Qualifier	Qualifier Description		Λ
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi VOA			
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
APLC/IC Qualifier	Qualifier Description		8
	Indicates the analyte was analyzed for but not detected.		
			9
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)		1
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		

Positive / Present

Presumptive Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

POS

PQL

QC RER

RL RPD

TEF

TEQ

TNTC

PRES

Page 203 of 244

4

Job ID: 890-4113-1 SDG: 03C1558142

Job ID: 890-4113-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4113-1

Receipt

The samples were received on 2/15/2023 3:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4113-1), FS02 (890-4113-2), FS04 (890-4113-3) and BH02 (890-4113-4).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS01 (890-4113-1), FS02 (890-4113-2), FS04 (890-4113-3), BH02 (890-4113-4), (LCS 880-46606/1-A), (LCSD 880-46606/2-A), (880-24215-A-5-A MB), (880-24215-A-6-A MDLV), (880-24755-A-11-E), (880-24755-A-11-C MS) and (880-24755-A-11-D MSD). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (MB 880-46824/1-A). Evidence of matrix interferences is not obvious.

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.

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

Limits

70 - 130

70 - 130

RL

RL

49.9

RL

49.9

49.9

0.00400

Dil Fac

1

1

1

1

1

Matrix: Solid

Job ID: 890-4113-1 SDG: 03C1558142

Client Sample ID: FS01

Project/Site: PLU 21 BD 125H

Date Collected: 02/15/23 12:45 Date Received: 02/15/23 15:45

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

Method: TAL SOP Total BTEX - Total BTEX Calculation

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

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

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

%Recovery Qualifier

138 S1+

109

<0.00400 U

168

<49.9 U

168

Result Qualifier

Result Qualifier

Result Qualifier

Sample Depth: 1

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Analyte

C10-C28)

(GRO)-C6-C10

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Gasoline Range Organics

Diesel Range Organics (Over

Client: Ensolum

Analyzed

02/18/23 07:05

02/18/23 07:05

02/18/23 07:05

02/18/23 07:05

02/18/23 07:05

Prepared

02/17/23 14:40

02/17/23 14:40

02/17/23 14:40

02/17/23 14:40

02/17/23 14:40

D

D

D

D

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Lab Sample ID: 890-4113-1 Matrix: Solid

5

02/18/23 07:05	1	
Analyzed	Dil Fac	9
02/18/23 07:05	1	
02/18/23 07:05	1	10
Analyzed	Dil Fac	11
02/20/23 14:09	1	12
02/20/23 14:09 Analyzed	1 Dil Fac	12 13
	·	12 13 14
Analyzed	Dil Fac	12 13 14
Analyzed 02/22/23 16:26	Dil Fac	12 13 14
Analyzed 02/22/23 16:26 Analyzed	Dil Fac	12 13 14
	Analyzed 02/18/23 07:05 02/18/23 07:05	Analyzed Dil Fac 02/18/23 07:05 1 02/18/23 07:05 1

Lab Sample ID: 890-4113-2

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114	70 - 130	02/21/23 08:40	02/21/23 10:56	1
o-Terphenyl	122	70 - 130	02/21/23 08:40	02/21/23 10:56	1

	in officio graphily o of a bio						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2650	50.2	mg/Kg			02/21/23 08:42	10

Client Sample ID: FS02 Date Collected: 02/15/23 13:20 Date Received: 02/15/23 15:45

Sample Depth: 1

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/17/23 14:40	02/18/23 07:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/17/23 14:40	02/18/23 07:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/17/23 14:40	02/18/23 07:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		02/17/23 14:40	02/18/23 07:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/17/23 14:40	02/18/23 07:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		02/17/23 14:40	02/18/23 07:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			02/17/23 14:40	02/18/23 07:26	1

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Client Sample Results

Job ID: 890-4113-1 SDG: 03C1558142

Lab Sample ID: 890-4113-2

Matrix: Solid

5

Date Collected: 02/15/23 13:20 Date Received: 02/15/23 15:45 Sample Depth: 1

Project/Site: PLU 21 BD 125H

Client Sample ID: FS02

Client: Ensolum

urrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
,4-Difluorobenzene (Surr)	106		70 - 130			02/17/23 14:40	02/18/23 07:26	
lethod: TAL SOP Total BTEX - 1	otal BTEX Calo	culation						
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
otal BTEX	<0.00404	U	0.00404	mg/Kg			02/20/23 14:09	
lethod: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
otal TPH	138		50.0	mg/Kg			02/22/23 16:26	
Aethod: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
nalyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Basoline Range Organics	<50.0	U	50.0	mg/Kg		02/21/23 08:40	02/21/23 12:01	
GRO)-C6-C10								
iesel Range Organics (Over	138		50.0	mg/Kg		02/21/23 08:40	02/21/23 12:01	
C10-C28)	-50.0		50.0	114		00/04/00 00 40	00/04/00 40 04	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/21/23 08:40	02/21/23 12:01	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
-Chlorooctane	101		70 - 130			02/21/23 08:40	02/21/23 12:01	
-Terphenyl	108		70 - 130			02/21/23 08:40	02/21/23 12:01	
lethod: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
	2940		50.2	mg/Kg			02/21/23 09:01	1

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		02/17/23 14:40	02/18/23 07:46	1
Toluene	<0.00202	U	0.00202	mg/Kg		02/17/23 14:40	02/18/23 07:46	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		02/17/23 14:40	02/18/23 07:46	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		02/17/23 14:40	02/18/23 07:46	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		02/17/23 14:40	02/18/23 07:46	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		02/17/23 14:40	02/18/23 07:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130			02/17/23 14:40	02/18/23 07:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130			02/17/23 14:40	02/18/23 07:46	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/20/23 14:09	1
Method: SW846 8015 NM - Die	sel Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample Results

Job ID: 890-4113-1 SDG: 03C1558142

Matrix: Solid

Lab Sample ID: 890-4113-3

Lab Sample ID: 890-4113-4

Matrix: Solid

Client Sample ID: FS04

Project/Site: PLU 21 BD 125H

Date Collected: 02/15/23 14:00 Date Received: 02/15/23 15:45

Sample Depth: 1

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/21/23 08:40	02/21/23 12:23	,
Diesel Range Organics (Over C10-C28)	115		49.9	mg/Kg		02/21/23 08:40	02/21/23 12:23	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/21/23 08:40	02/21/23 12:23	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	112		70 - 130			02/21/23 08:40	02/21/23 12:23	
o-Terphenyl	118		70 - 130			02/21/23 08:40	02/21/23 12:23	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1590	25.0	mg/Kg			02/21/23 09:07	5

Client Sample ID: BH02

Date Collected: 02/15/23 09:55

Date Received: 02/15/23 15:45

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		02/17/23 14:40	02/18/23 08:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		02/17/23 14:40	02/18/23 08:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/17/23 14:40	02/18/23 08:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/17/23 14:40	02/18/23 08:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/17/23 14:40	02/18/23 08:07	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/17/23 14:40	02/18/23 08:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	144	S1+	70 - 130			02/17/23 14:40	02/18/23 08:07	1
1,4-Difluorobenzene (Surr)	105		70 - 130			02/17/23 14:40	02/18/23 08:07	1
Method: TAL SOP Total BTEX - Analyte Total BTEX		Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/20/23 14:09	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Dies	el Range Organ	Qualifier U ics (DRO) (0.00396	mg/Kg		<u>`</u>	02/20/23 14:09	Dil Fac
Analyte Total BTEX	el Range Organ	Qualifier U ics (DRO) (Qualifier	0.00396		D	Prepared Prepared		Dil Fac 1 Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte	el Range Organ Result <0.00396 el Range Organ 	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00396 GC) RL 50.0	mg/Kg Unit		<u>`</u>	02/20/23 14:09 Analyzed	Dil Fa
Analyte Total BTEX Method: SW846 8015 NM - Dies Analyte Total TPH Method: SW846 8015B NM - Die Analyte	el Range Organ Result <0.00396 el Range Organ 	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00396 GC) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg Unit	D	Prepared	02/20/23 14:09 Analyzed 02/22/23 16:26 Analyzed	

Released to Imaging: 2/18/2025 11:05:31 AM Page 8 of 24

		Client	Sample Res	sults					1
Client: Ensolum Project/Site: PLU 21 BD 125H							Job ID: 890 SDG: 03C1		2
Client Sample ID: BH02 Date Collected: 02/15/23 09:55						Lab Sa	mple ID: 890- Matri	4113-4 x: Solid	
Date Received: 02/15/23 15:45 Sample Depth: 2									4
Method: EPA 300.0 - Anions, Ion Cl Analyte		hy - Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	307		5.05	mg/Kg			02/21/23 09:13	1	
									8
									9
									13

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

				Percent Surrogate Recovery (Acceptance Lim
		BFB1	DFBZ1	
ample ID	Client Sample ID	(70-130)	(70-130)	
4755-A-11-C MS	Matrix Spike	132 S1+	106	
755-A-11-D MSD	Matrix Spike Duplicate	132 S1+	97	
113-1	FS01	138 S1+	109	
113-2	FS02	141 S1+	106	
13-3	FS04	142 S1+	101	
13-4	BH02	144 S1+	105	
380-46606/1-A	Lab Control Sample	131 S1+	105	
880-46606/2-A	Lab Control Sample Dup	131 S1+	102	
880-46606/5-A	Method Blank	127	100	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
o Sample ID	Client Sample ID	(70-130)	(70-130)	
113-1	FS01	114	122	
3-1 MS	FS01	118	112	
13-1 MSD	FS01	128	125	
113-2	FS02	101	108	
3-3	FS04	112	118	
3-4	BH02	100	108	
)-46824/2-A	Lab Control Sample	83	90	
880-46824/3-A	Lab Control Sample Dup	82	91	
80-46824/1-A	Method Blank	137 S1+	156 S1+	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Page 208 of 244

Job ID: 890-4113-1 SDG: 03C1558142

Prep Type: Total/NA 5 6

Prep Type: Total/NA

Project/Site: PLU 21 BD 125H

Client: Ensolum

Mothod: 8021B Volatila O C .

Lab Sample ID: MB 880-4660	06/5-A								Client Sa	mple ID: M	ethod	Blank
Matrix: Solid										Prep Ty		
Analysis Batch: 46567										Prep B		
	N	В МВ										
Analyte	Resu	It Qualifier	RL		Unit		D	P	repared	Analyzed	I	Dil Fa
Benzene	<0.0020	00 U	0.00200		mg/K	g	_	02/1	7/23 14:40	02/18/23 01		
Toluene	<0.0020	0 U	0.00200		mg/K	-		02/1	7/23 14:40	02/18/23 01	:43	
Ethylbenzene	<0.0020	0 U	0.00200		mg/K			02/1	7/23 14:40	02/18/23 01	:43	
m-Xylene & p-Xylene	<0.0040	0 U	0.00400		mg/K			02/1	7/23 14:40	02/18/23 01	:43	
o-Xylene	<0.0020	0 U	0.00200		mg/K			02/1	7/23 14:40	02/18/23 01	:43	
Xylenes, Total	<0.0040	0 U	0.00400		mg/K	g		02/1	7/23 14:40	02/18/23 01	:43	
						•						
		B MB										
Surrogate		ry Qualifier	Limits						repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)		27	70 - 130						7/23 14:40	02/18/23 01		1
1,4-Difluorobenzene (Surr)	10	00	70 - 130					02/1	7/23 14:40	02/18/23 01	:43	1
Lab Sample ID: LCS 880-466	606/1-A						С	lient	Sample	ID: Lab Con		
Matrix: Solid										Prep Ty	pe: To	tal/NA
Analysis Batch: 46567										Prep B	atch:	46606
			Spike	LCS	LCS					%Rec		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene			0.100	0.1185		mg/Kg			118	70 - 130		
Toluene			0.100	0.1111		mg/Kg			111	70 - 130		
Ethylbenzene			0.100	0.1141		mg/Kg			114	70 - 130		
m-Xylene & p-Xylene			0.200	0.2420		mg/Kg			121	70 - 130		
p-Xylene			0.100	0.1184		mg/Kg			118	70 - 130		
	LCS L	~ c										
Surrogate	%Recovery Q		Limits									
4-Bromofluorobenzene (Surr)			70 - 130									
1,4-Difluorobenzene (Surr)	107 0		70 - 130									
	100		101100									
Lab Sample ID: LCSD 880-4	6606/2-A					CI	ient	Sam	ple ID: L	ab Control	Sampl	e Dup
Matrix: Solid										Prep Ty	pe: To	tal/NA
Analysis Batch: 46567										Prep B	atch:	46606
			Spike	LCSD	LCSD					%Rec		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene			0.100	0.1254		mg/Kg			125	70 - 130	6	35
Toluene			0.100	0.1195		mg/Kg			120	70 - 130	7	35
Ethylbenzene			0.100	0.1190		mg/Kg			119	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.2526		mg/Kg			126	70 - 130	4	35
o-Xylene			0.100	0.1229		mg/Kg			123	70 - 130	4	35
	LCSD L											
Surrogate	%Recovery Q		Limits									
4-Bromofluorobenzene (Surr)	131 S	1+	70 - 130									
1,4-Difluorobenzene (Surr)	102		70 - 130									
Lab Sample ID: 880-24755-A	-11-C MS								Client S	Sample ID: I	Matrix	Spike
Matrix: Solid										Prep Ty	pe: To	tal/N/
Analysis Batch: 46567										Prep B	atch:	46606
	Sample S	ample	Spike	MS	MS					%Rec		
Analyte	Result Q	ualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
			0.101	0.1268		malka			126	70 - 130		
Benzene	<0.00202 U		0.101	0.1200		mg/Kg			120	10 - 150		

Eurofins Carlsbad

mg/Kg

119

70 - 130

<0.00202 U

Toluene

0.1202

0.101

QC Sample Results

Client: Ensolum Project/Site: PLU 21 BD 125H

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

Lab Sample ID: 880-24755-A-1	1-C MS									Client S	Sample ID: I		
Matrix: Solid											Prep Ty	pe: To	tal/NA
Analysis Batch: 46567											Prep E	atch:	46606
	Sample	Samp	le	Spike	MS	MS					%Rec		
Analyte	Result	Quali	fier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Ethylbenzene	<0.00202	U		0.101	0.1192		mg/Kg			118	70 - 130		
m-Xylene & p-Xylene	<0.00403	U		0.202	0.2517		mg/Kg			125	70 - 130		
o-Xylene	<0.00202	U		0.101	0.1232		mg/Kg			122	70 - 130		
	MS	мs											
Surrogate	%Recovery	Quali	fier	Limits									
4-Bromofluorobenzene (Surr)	132	S1+		70 - 130									
1,4-Difluorobenzene (Surr)	106			70 - 130									
Lab Sample ID: 880-24755-A-1	1-D MSD							Clie	nt Sa	mple ID:	Matrix Spil	ke Dup	olicate
Matrix: Solid											Prep Ty	pe: To	tal/NA
Analysis Batch: 46567											Prep E	atch:	46606
	Sample	Samp	le	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Quali	fier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U		0.0996	0.1080		mg/Kg			108	70 - 130	16	35
Toluene	<0.00202	U		0.0996	0.1133		mg/Kg			114	70 - 130	6	35
Ethylbenzene	<0.00202	U		0.0996	0.1146		mg/Kg			115	70 - 130	4	35
m-Xylene & p-Xylene	<0.00403	U		0.199	0.2433		mg/Kg			122	70 - 130	3	35
o-Xylene	<0.00202	U		0.0996	0.1194		mg/Kg			119	70 - 130	3	35
	MSD	MSD											
Surrogate	%Recovery	Quali	fier	Limits									
4-Bromofluorobenzene (Surr)	132	S1+		70 - 130									
1,4-Difluorobenzene (Surr)	97			70 - 130									
lethod: 8015B NM - Diese	l Range Or	gani	ics (DR	O) (GC)									
Lab Sample ID: MB 880-46824	/1-A									Client Sa	ample ID: M	ethod	Blank
Matrix: Solid											Prep Ty		
Analysis Batch: 46831											Prep E		
		мв	мв										
Analyte	Re		Qualifier	RL		Unit		D	Pr	epared	Analyzed	1	Dil Fac
Gasoline Range Organics		50.0				0 mg/K	a	_		/23 08:40	02/21/23 08		1
(GRO)-C6-C10			-	00.0		iiig/it	9		0212	.,_0 00.40	52,21,2000		'
Diesel Range Organics (Over	<5	50.0	U	50.0		mg/K	g		02/21	/23 08:40	02/21/23 08	:17	1
C10-C28)						0	-						
Oll Range Organics (Over C28-C36)	<5	50.0	U	50.0		mg/K	g		02/21	/23 08:40	02/21/23 08	:17	1
		МВ	МВ										
Surrogate			Qualifier	Limits					Pr	epared	Analyzeo	1	Dil Fac
1-Chlorooctane		137		70 - 130						1/23 08:40	02/21/23 08		1
o-Terphenyl		156		70 - 130						1/23 08:40	02/21/23 08		1
1 2													
Lab Sample ID: LCS 880-4682	4/2-A							С	lient	Sample	ID: Lab Cor	trol S	ample

Matrix: Solid Analysis Batch: 46831

Analysis Batch: 46831							Prep	Batch: 46824
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1084		mg/Kg		108	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1170		mg/Kg		117	70 - 130	
C10-C28)								

QC Sample Results

Client: Ensolum Project/Site: PLU 21 BD 125H

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

SDG: 03C1558142

Lab Sample ID: LCS 880-46824/2	2-A						Client	Sample	e ID: Lab Co	ontrol S	ample
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 46831									Prep	Batch:	46824
	105	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane	83	Quanner	70 - 130								
o-Terphenyl	90		70 - 130 70 - 130								
	50		10 - 100								
Lab Sample ID: LCSD 880-46824	/3-A					Clier	nt Sam	ple ID:	Lab Contro	I Sampl	le Dup
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 46831										Batch:	
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	1130		mg/Kg		113	70 - 130	4	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1043		mg/Kg		104	70 - 130	12	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	82		70 - 130								
o-Terphenyl	91		70 - 130								
Lab Sample ID: 890-4113-1 MS Matrix: Solid										ype: To	tal/NA
Analysis Batch: 46831	<u> </u>	. .	.							Batch:	46824
A web de		Sample	Spike		MS	11 14	_	0/ D	%Rec		
Analyte	<49.9	Qualifier	Added	1190	Qualifier	Unit	D	%Rec 117	Limits 70 - 130		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1190		mg/Kg		117	70 - 130		
Diesel Range Organics (Over	168		997	1295		mg/Kg		113	70 - 130		
C10-C28)						5 5					
	MS	MS									
Surrogate	%Recovery		Limits								
1-Chlorooctane	118	Quanner	70 - 130								
o-Terphenyl	112		70 - 130								
			/01/00								
Lab Sample ID: 890-4113-1 MSD									Client Sar	nple ID:	: FS01
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 46831										Batch:	
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	1240		mg/Kg		122	70 - 130	4	20
(GRO)-C6-C10											
	168		999	1413		malka		125	70 - 130	9	20
Diesel Range Organics (Over	100		333	1413		mg/Kg		125	70 - 130	9	20
Diesei Range Organics (Over C10-C28)	100		333	1413		ilig/rxg		125	70 - 130	5	20

	1000	150	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	125		70 - 130

Project/Site: PLU 21 BD 125H

Client: Ensolum

QC Sample Results

Job ID: 890-4113-1 SDG: 03C1558142

Method: 300.0 - Anions, Ion Chromatography

									Client S	Sample ID:	Method	Blank
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 46816												
		MB MB										
Analyte	R	esult Qua	lifier	RL	Un	it	D	Pr	epared	Analy	zed	Dil Fac
Chloride	<	<5.00 U		5.00	mg	/Kg				02/21/23	08:24	1
	4						Cli	ent	Sample	BID: Lab C	ontrol S	ample
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 46816												
			Spike	LCS	LCS					%Rec		
Analyte			Added		Qualifier			D	%Rec	Limits		
Chloride			250	235.3	•	mg/Kg			94	90 - 110		
Lab Sample ID: LCSD 880-46600/3	- A					CI	ient S	Sam	ple ID:	Lab Contro	ol Sampl	le Dup
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 46816												
			Spike	LCSD	LCSD					%Rec		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			250	235.4		mg/Kg			94	90 - 110	0	20
_ Lab Sample ID: 890-4113-1 MS										Client Sa	mple ID:	: FS01
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 46816												
	Sample	Sample	Spike	MS	MS					%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	2650		2510	5231		mg/Kg			103	90 _ 110		
Lab Sample ID: 890-4113-1 MSD										Client Sa	mple ID:	: FS01
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 46816												
	Sample	Sample	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride	2650		2510	5235		mg/Kg			103	90 - 110	0	20

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QC Association Summary

Client: Ensolum Project/Site: PLU 21 BD 125H

5

Job ID: 890-4113-1 SDG: 03C1558142

GC VOA

Analysis Batch: 46567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4113-1	FS01	Total/NA	Solid	8021B	46606
890-4113-2	FS02	Total/NA	Solid	8021B	46606
890-4113-3	FS04	Total/NA	Solid	8021B	46606
890-4113-4	BH02	Total/NA	Solid	8021B	46606
MB 880-46606/5-A	Method Blank	Total/NA	Solid	8021B	46606
LCS 880-46606/1-A	Lab Control Sample	Total/NA	Solid	8021B	46606
LCSD 880-46606/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46606
880-24755-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	46606
880-24755-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46606

Prep Batch: 46606

LCSD 880-46606/2-A	Lab Control Sample Dup	Iotal/INA	Solid	8021B	46606	
880-24755-A-11-C MS	Matrix Spike	Total/NA	Solid	8021B	46606	8
880-24755-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46606	
Prep Batch: 46606						9
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	10
890-4113-1	FS01	Total/NA	Solid	5035		
890-4113-2	FS02	Total/NA	Solid	5035		44
890-4113-3	FS04	Total/NA	Solid	5035		
890-4113-4	BH02	Total/NA	Solid	5035		12
MB 880-46606/5-A	Method Blank	Total/NA	Solid	5035		
LCS 880-46606/1-A	Lab Control Sample	Total/NA	Solid	5035		40
LCSD 880-46606/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		13
880-24755-A-11-C MS	Matrix Spike	Total/NA	Solid	5035		
880-24755-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		14

Analysis Batch: 46739

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4113-1	FS01	Total/NA	Solid	Total BTEX	
890-4113-2	FS02	Total/NA	Solid	Total BTEX	
890-4113-3	FS04	Total/NA	Solid	Total BTEX	
890-4113-4	BH02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 46824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4113-1	FS01	Total/NA	Solid	8015NM Prep	
890-4113-2	FS02	Total/NA	Solid	8015NM Prep	
890-4113-3	FS04	Total/NA	Solid	8015NM Prep	
890-4113-4	BH02	Total/NA	Solid	8015NM Prep	
MB 880-46824/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46824/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46824/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4113-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-4113-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46831

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4113-1	FS01	Total/NA	Solid	8015B NM	46824
890-4113-2	FS02	Total/NA	Solid	8015B NM	46824
890-4113-3	FS04	Total/NA	Solid	8015B NM	46824
890-4113-4	BH02	Total/NA	Solid	8015B NM	46824
MB 880-46824/1-A	Method Blank	Total/NA	Solid	8015B NM	46824
LCS 880-46824/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46824

GC Semi VOA (Continued)

Analysis Batch: 46831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-46824/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46824
890-4113-1 MS	FS01	Total/NA	Solid	8015B NM	46824
890-4113-1 MSD	FS01	Total/NA	Solid	8015B NM	46824
Analysis Batch: 46974					

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4113-1	FS01	Total/NA	Solid	8015 NM	
890-4113-2	FS02	Total/NA	Solid	8015 NM	
890-4113-3	FS04	Total/NA	Solid	8015 NM	
890-4113-4	BH02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4113-1	FS01	Soluble	Solid	DI Leach	
890-4113-2	FS02	Soluble	Solid	DI Leach	
890-4113-3	FS04	Soluble	Solid	DI Leach	
890-4113-4	BH02	Soluble	Solid	DI Leach	
MB 880-46600/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46600/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46600/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4113-1 MS	FS01	Soluble	Solid	DI Leach	
890-4113-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 46816

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-4113-1	FS01	Soluble	Solid	300.0	46600
890-4113-2	FS02	Soluble	Solid	300.0	46600
890-4113-3	FS04	Soluble	Solid	300.0	46600
890-4113-4	BH02	Soluble	Solid	300.0	46600
MB 880-46600/1-A	Method Blank	Soluble	Solid	300.0	46600
LCS 880-46600/2-A	Lab Control Sample	Soluble	Solid	300.0	46600
LCSD 880-46600/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46600
890-4113-1 MS	FS01	Soluble	Solid	300.0	46600
890-4113-1 MSD	FS01	Soluble	Solid	300.0	46600

5

5

9

Job ID: 890-4113-1 SDG: 03C1558142

Lab Sample ID: 890-4113-1 Matrix: Solid

Lab Sample ID: 890-4113-2

Lab Sample ID: 890-4113-3

Lab Sample ID: 890-4113-4

Matrix: Solid

Matrix: Solid

Date Collected: 02/15/23 12:45 Date Received: 02/15/23 15:45

Project/Site: PLU 21 BD 125H

Client Sample ID: FS01

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	46606	02/17/23 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/18/23 07:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46739	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46974	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46824	02/21/23 08:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 10:56	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46600	02/17/23 12:49	KS	EET MID
Soluble	Analysis	300.0		10			46816	02/21/23 08:42	СН	EET MID

Client Sample ID: FS02

Date Collected: 02/15/23 13:20

Date Received: 02/15/23 15:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	46606	02/17/23 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/18/23 07:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46739	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46974	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46824	02/21/23 08:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 12:01	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	46600	02/17/23 12:49	KS	EET MID
Soluble	Analysis	300.0		10			46816	02/21/23 09:01	СН	EET MID

Client Sample ID: FS04

Date Collected: 02/15/23 14:00

Date Received: 02/15/23 15:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46606	02/17/23 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/18/23 07:46	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46739	02/20/23 14:09	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46974	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46824	02/21/23 08:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 12:23	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46600	02/17/23 12:49	KS	EET MID
Soluble	Analysis	300.0		5			46816	02/21/23 09:07	CH	EET MID

Client Sample ID: BH02 Date Collected: 02/15/23 09:55 Date Received: 02/15/23 15:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	46606	02/17/23 14:40	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46567	02/18/23 08:07	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			46739	02/20/23 14:09	AJ	EET MID

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Matrix: Solid

Page 215 of 244

Released to Imaging: 2/18/2025 11:05:31 AM

Job ID: 890-4113-1

SDG: 03C1558142

Matrix: Solid

9

Lab Sample ID: 890-4113-4

Lab Chronicle

Client: Ensolum Project/Site: PLU 21 BD 125H

Client Sample ID: BH02 Date Collected: 02/15/23 09:55

Date Received: 02/15/23 15:45

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46974	02/22/23 16:26	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46824	02/21/23 08:40	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46831	02/21/23 12:45	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46600	02/17/23 12:49	KS	EET MID
Soluble	Analysis	300.0		1			46816	02/21/23 09:13	СН	EET MID

Laboratory References:

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

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Released to Imaging: 2/18/2025 11:05:31 AM
Laboratory: Eurofins Midland

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

uthority	Pr	rogram	Identification Number	Expiration Date
exas	N	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not o		Matrix	Analyte	
Analysis Method	fer certification. Prep Method	Matrix	Analyte	
0 ,		Matrix Solid Solid	Analyte Total TPH Total BTEX	

Page 217 of 244

Job ID: 890-4113-1 SDG: 03C1558142

Method Summary

Client: Ensolum Project/Site: PLU 21 BD 125H Job ID: 890-4113-1 SDG: 03C1558142

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
Protocol Refe	erences:		
ASTM = A	STM International		
EPA = US	Environmental Protection Agency		
SW846 =	"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed	ition, November 1986 And Its Updates.	
TAL SOP	= TestAmerica Laboratories, Standard Operating Procedure		
Laboratory R	eferences:		
EET MID	= Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

Laboratory References:

Eurofins Carlsbad

Released to Imaging: 2/18/2025 11:05:31 AM

Client: Ensolum Project/Site: PLU 21 BD 125H Job ID: 890-4113-1 SDG: 03C1558142

b Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
0-4113-1	FS01	Solid	02/15/23 12:45	02/15/23 15:45	1
0-4113-2	FS02	Solid	02/15/23 13:20	02/15/23 15:45	1
0-4113-3	FS04	Solid	02/15/23 14:00	02/15/23 15:45	1
0-4113-4	BH02	Solid	02/15/23 09:55	02/15/23 15:45	2

Email bbc:iul@cnsciwam.ca.m Tum Around Prest. Tar starts the day received by 4:30pm Prest. Wettce Veb No emperature: 1-0 Parameters Parameters actor: -0.7 Pereading: 1-0 Parameters Parameters Parameters PA Parameters PA PA PA PA PA PA PA PA PA PA PA PA PA PA <th>200.8 / 6020: 200.8 / 6020: relinquistment of samples constitut only for the cost of samples and shal only for the cost of samples and shal status and shal status and shall be applied to each proj status and shall be applied to each proj</th> <th>110 200.8 and Metal(s) will be liable only for 1 num charge of \$85.00 num charge of \$85.00</th> <th>Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed volice: Signature of this document and relinquishment of samples const of service. Eurofins Xenco will be liable only for the cost of samples and of Eurofins Xenco. A minimum charge of \$35.00 will be applied to each definition of the cost of samples and the samples of the cost of samples and definition of the cost of samples and the samples are achieved by: (Signature) Rece</th>	200.8 / 6020: 200.8 / 6020: relinquistment of samples constitut only for the cost of samples and shal only for the cost of samples and shal status and shal status and shall be applied to each proj status and shall be applied to each proj	110 200.8 and Metal(s) will be liable only for 1 num charge of \$85.00 num charge of \$85.00	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed volice: Signature of this document and relinquishment of samples const of service. Eurofins Xenco will be liable only for the cost of samples and of Eurofins Xenco. A minimum charge of \$35.00 will be applied to each definition of the cost of samples and the samples of the cost of samples and definition of the cost of samples and the samples are achieved by: (Signature) Rece
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dy dy dy dy dy dy dy dy dy dy dy dy dy d	s / 6020: to be analyzed	110 200.8 and Metal(s)	Total 200.7 / 60 Circle Method(s)
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Email: bhc.i.i.l@c.nsci.v.m. (c.m. Deliverables: EDD Analysis REQUEST Turn Around Prest Analysis REQUEST Analysis REQUEST Tarl starts the day received by 4:30pm Prest Analysis REQUEST Tarl starts the day received by 4:30pm Parameters Analysis REQUEST Wetke Vet No Parameters Analysis Request actor: -03 -03 Parameters Analysis Request actor: -03 -03 -03 -04 actor: -03 -04 -04 -04			Frint -
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Email: bhc_iiil@consolvem.com Deliverables: EDD ADap Turn Around Prest ANALYSIS REQUEST ANALYSIS REQUEST ADap TAT starts the day received by the lab. freeewed by 430pm Prest Analysis Request Analysis Request TAT starts the day received by 430pm Parameters Analysis Request Analysis Request Analysis Request TAT starts the day received by 430pm Parameters Analysis Request Analysis Request Analysis Request TAT starts the day received by 430pm Parameters Analysis Request Analysis Request Analysis Request Analysis Request Analysis Request TAT starts the day received by 430pm Parameters Analysis Request Analysis Request Analysis Request Analysis Request TAT starts the day received by 430pm Analysis Request Analysis Request Analysis Request Analysis Request Analysis Request Tat starts the day received by 430pm Analysis Request Analysis Request Analysis Request Analysis Request Analysis Request Batter of the start of the starto	Matrix Date Sampled	tification	Sample Identification
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Email: bbciul@cnsoiwm.com Deliverables: EDD ADaPT Turn Around ANALYSIS REQUEST ANALYSIS REQUEST None	32.109254105.883934	32.1042	Project Location:
Email: bbci ill@cnsoiwn. (a.m Deliverables: EDD ADaPT Turn Around ANALYSIS REQUEST	8142	0301558142	Project Number:
Email: bbciul@cnsoiwn.com Deliverables: EDD ADaPT	PLU 21 80 125H	PLU21	Project Name:
	54-0852	989.854.	Phone:
City, State ZIP: Carlsbad, NM 88220 Reporting: Level II Level III PST/UST TRRP	7	Carlsbad,	City, State ZIP:
Address: 3104 E Greene St State of Project:	lat'l Parks Hwy	3122 NAT	Address:
Energy	Thisium, LLC	5hich	Company Name:
Bill to: (If different) Garrett Green Work Order Comments	Belill	Ben	Project Manager:
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 www.xenco.com Page			
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Xenco		
Tousiuit, IA (201) 2007400, Dana, IA (210) 509-3334 Work Order No:	Environment Testing		

5 6

13

Login Sample Receipt Checklist

Client: Ensolum

Login Number: 4113 List Number: 1 Creator: Clifton, Cloe

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

Job Number: 890-4113-1 SDG Number: 03C1558142

List Source: Eurofins Carlsbad

14

Job Number: 890-4113-1 SDG Number: 03C1558142

List Source: Eurofins Midland

List Creation: 02/17/23 11:14 AM

Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 4113 List Number: 2 Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
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	N/A	



APPENDIX E

NMOCD Notifications

Released to Imaging: 2/18/2025 11:05:31 AM

Ben Belill

From:	Green, Garrett J <garrett.green@exxonmobil.com></garrett.green@exxonmobil.com>
Sent:	Thursday, December 22, 2022 2:01 PM
То:	ocd.enviro@emnrd.nm.gov; Bratcher, Michael, EMNRD; Billings, Bradford, EMNRD; Harimon, Jocelyn,
	EMNRD; Hamlet, Robert, EMNRD
Cc:	DelawareSpills /SM; Ben Belill; Tacoma Morrissey
Subject:	XTO - Sampling Notification (Week of 12/27/22 - 12/30/22)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Dec 27, 2022.

- PLU 21 BD 125H / nAPP2229145683
- PLU 21 Brushy Draw Pad B / NAPP2210553504
- Pickett Draw Federal #001 / NAB1919955454
- PLU 428 CTB

Thank you,

Garrett Green Environmental Coordinator Delaware Business Unit (575) 200-0729 Garrett.Green@ExxonMobil.com

XTO Energy, Inc. 3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From:	Enviro, OCD, EMNRD
То:	Green, Garrett J; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Cc:	Tacoma Morrissey
Subject:	RE: [EXTERNAL] XTO - Sampling Notification (Week of 2/13/23 - 2/17/23)
Date:	Thursday, February 9, 2023 10:20:24 AM

[**EXTERNAL EMAIL**]

Garrett,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

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



From: Green, Garrett J <garrett.green@exxonmobil.com>
Sent: Thursday, February 9, 2023 8:24 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD
<mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>;
Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>
Subject: [EXTERNAL] XTO - Sampling Notification (Week of 2/13/23 - 2/17/23)

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

All,

XTO plans to complete final sampling activities at the following sites the week of Feb 13, 2023.

- ADU 641 / nAPP2302355577
- Remuda 4-24-30 CTB / nAPP2233351770
- PLU 21 BD 125H / nAPP2229145683

Thank you,



APPENDIX B

Photographic Log





APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



March 08, 2024

TACOMA MORRISSEY ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: PLU 21 BD 125H

Enclosed are the results of analyses for samples received by the laboratory on 03/05/24 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	, ,	
Received:	03/05/2024		Sampling Date:	03/04/2024
Reported:	03/08/2024		Sampling Type:	Soil
Project Name:	PLU 21 BD 125H		Sampling Condition:	Cool & Intact
Project Number:	03C1558142		Sample Received By:	Tamara Oldaker
Project Location:	XTO			

Sample ID: SW 01 0-1 (H241079-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/07/2024	ND	2.43	122	2.00	5.45	
Toluene*	<0.050	0.050	03/07/2024	ND	2.28	114	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	0.0454	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.76	113	6.00	0.923	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	80.0	16.0	03/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received:03/05/2024Sampling Date:03/04/2024Reported:03/08/2024Sampling Type:SoilProject Name:PLU 21 BD 125HSampling Condition:Cool & IntactProject Number:03C1558142Sample Received By:Tamara Oldaker			ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Project Name:PLU 21 BD 125HSampling Condition:Cool & IntactProject Number:03C1558142Sample Received By:Tamara Oldaker	Received:	03/05/2024		Sampling Date:	03/04/2024
Project Number: 03C1558142 Sample Received By: Tamara Oldaker	Reported:	03/08/2024		Sampling Type:	Soil
	Project Name:	PLU 21 BD 125H		Sampling Condition:	Cool & Intact
Project Location: XTO	Project Number: Project Location:	03C1558142 XTO		Sample Received By:	Tamara Oldaker

Sample ID: SS 07 0.5 (H241079-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	2.43	122	2.00	5.45	
Toluene*	<0.050	0.050	03/07/2024	ND	2.28	114	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	0.0454	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.76	113	6.00	0.923	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received:03/05/2024Sampling Date:03/04/2024Reported:03/08/2024Sampling Type:SoilProject Name:PLU 21 BD 125HSampling Condition:Cool & IntactProject Number:03C1558142Sample Received By:Tamara Oldaker			ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Project Name:PLU 21 BD 125HSampling Condition:Cool & IntactProject Number:03C1558142Sample Received By:Tamara Oldaker	Received:	03/05/2024		Sampling Date:	03/04/2024
Project Number: 03C1558142 Sample Received By: Tamara Oldaker	Reported:	03/08/2024		Sampling Type:	Soil
	Project Name:	PLU 21 BD 125H		Sampling Condition:	Cool & Intact
Project Location: XTO	Project Number: Project Location:	03C1558142 XTO		Sample Received By:	Tamara Oldaker

Sample ID: SS 08 0.5 (H241079-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	2.43	122	2.00	5.45	
Toluene*	<0.050	0.050	03/07/2024	ND	2.28	114	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	0.0454	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.76	113	6.00	0.923	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received:03/05/2024Sampling Date:03/04/2024Reported:03/08/2024Sampling Type:SoilProject Name:PLU 21 BD 125HSampling Condition:Cool & IntactProject Number:03C1558142Sample Received By:Tamara Oldaker			ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Project Name:PLU 21 BD 125HSampling Condition:Cool & IntactProject Number:03C1558142Sample Received By:Tamara Oldaker	Received:	03/05/2024		Sampling Date:	03/04/2024
Project Number: 03C1558142 Sample Received By: Tamara Oldaker	Reported:	03/08/2024		Sampling Type:	Soil
	Project Name:	PLU 21 BD 125H		Sampling Condition:	Cool & Intact
Project Location: XTO	Project Number: Project Location:	03C1558142 XTO		Sample Received By:	Tamara Oldaker

Sample ID: SS 09 0.5 (H241079-04)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	2.43	122	2.00	5.45	
Toluene*	<0.050	0.050	03/07/2024	ND	2.28	114	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	0.0454	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.76	113	6.00	0.923	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					
Surrogate: 1-Chlorooctane	76.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.1	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HW CARLSBAD NM, 88220 Fax To:	Y	
Received:	03/05/2024		Sampling Date:	03/04/2024
Reported:	03/08/2024		Sampling Type:	Soil
Project Name:	PLU 21 BD 125H		Sampling Condition:	Cool & Intact
Project Number:	03C1558142		Sample Received By:	Tamara Oldaker
Project Location:	XTO			

Sample ID: SS 10 0.5 (H241079-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2024	ND	2.43	122	2.00	5.45	
Toluene*	<0.050	0.050	03/07/2024	ND	2.28	114	2.00	2.92	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	0.0454	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.76	113	6.00	0.923	
Total BTEX	<0.300	0.300	03/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	202	101	200	0.965	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	176	87.8	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 2/12/2025 1:55:23 PM

Page 8 of 8

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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

Page 237 of 244

QUESTIONS

Action 431347

QUESTIONS					
Operator:	OGRID:				
XTO ENERGY, INC	5380				
6401 Holiday Hill Road	Action Number:				
Midland, TX 79707	431347				
	Action Type:				
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)				

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2229145683
Incident Name	NAPP2229145683 PLU 21 BRUSHY DRAW 125H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.					
Site Name	PLU 21 BRUSHY DRAW 125H				
Date Release Discovered	10/04/2022				
Surface Owner	Private				

Incident Details

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

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.				
Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.			
Produced Water Released (bbls) Details	Cause: Equipment Failure Other (Specify) Produced Water Released: 4 BBL Recovered: 4 BBL Lost: 0 BBL.			
Is the concentration of chloride in the produced water >10,000 mg/l	Νο			
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)	Seal failure on a sand knock out.			

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QUESTIONS, Page 2

Action 431347

Page 238 of 244

QUESTIONS (continued)		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	431347	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

	lature and Volume of Release (continued)				
Is this a gas only submission (i.e. only significant Mcf values reported) More info needed to determine if this will be treated as a		More info needed to determine if this will be treated as a "gas only" report.			
	Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No			
	Reasons why this would be considered a submission for a notification of a major release	Unavailable.			
	With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e	th 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.			
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or		
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor		

Email: colton.s.brown@exxonmobil.com

Date: 02/12/2025

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QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	431347
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	Id the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
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 500 and 1000 (ft.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
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 ti	hat 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 de	monstrating 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 vertica	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in mi	lligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	8400
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	15500
GRO+DRO	(EPA SW-846 Method 8015M)	13500
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.1
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
	NMAC unless the site characterization report includes completed relines for beginning and completing the remediation.	l efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date with	II the remediation commence	11/17/2022
On what date will (or did) t	ne final sampling or liner inspection occur	03/04/2024
On what date will (or was)	the remediation complete(d)	03/04/2024
What is the estimated surfa	ace area (in square feet) that will be reclaimed	775
What is the estimated volu	me (in cubic yards) that will be reclaimed	57
What is the estimated surfa	ace area (in square feet) that will be remediated	775
What is the estimated volu	me (in cubic yards) that will be remediated	29
These estimated dates and measu	rements 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.

Action 431347

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(In Situ) Soil Vapor Extraction

(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)

(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)

Ground Water Abatement pursuant to 19.15.30 NMAC

OTHER (Non-listed remedial process)

(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)

which includes the anticipated timelines for beginning and completing the remediation

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

Page	240	of 244

QUESTIONS, Page 4

Action 431347

QUESTIONS (continued) OGRID Operator **XTO ENERGY, INC** 5380 6401 Holiday Hill Road Action Number Midland, TX 79707 431347 Action Type [C-141] Remediation Closure Request C-141 (C-141-v-Closure) QUESTIONS Remediation Plan (continued) Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered.

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 Name: Colton Brown

Not answered.

Not answered.

Not answered.

Not answered.

Not answered.

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

	I hereby agree and sign off to the above statement	Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 02/12/2025
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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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

Page 241 of 244

QUESTIONS, Page 5

Action 431347

QUESTIONS (continued)		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	431347	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS	;
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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	Νο		

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QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	431347
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	318726
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/04/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	2000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all re	emediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	775	
What was the total volume (cubic yards) remediated	29	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	775	
What was the total volume (in cubic yards) reclaimed	29	
Summarize any additional remediation activities not included by answers (above)	"Soil sampling activities were conducted at the Site to address the October 4, 2022, crude oil and produced water release. Laboratory analytical results from all samples collected from the final excavation extent and release area, indicated that all COC concentrations were in compliance with the Closure Criteria. Based on laboratory analytical results, impacted soil exceeding the Site Closure Criteria has been excavated and no further remediation is required at this time. However, soil on the well pad exceeding the reclamation requirements of NMAC 19.15.29.13.D (1) will be removed during the final reclamation of the well pad. The excavation was backfilled with material purchased locally and the surface recontoured to match pre-existing Site conditions. Excavation of impacted soil has nitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. "	
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents o	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.		
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 02/12/2025	

Action 431347

Page 242 of 244

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QUESTIONS, Page 7

Action 431347

Page 243 of 244

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QUESTIONS (continued)		
Operator: XTO ENERGY, INC	OGRID: 5380	
6401 Holiday Hill Road Midland, TX 79707	Action Number: 431347	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
OUESTIONS		

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.			
Requesting a reclamation approval with this submission	Νο		

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Page	244	of	244
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CONDITIONS

Action 431347

CONDITIONS		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	431347	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS	

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2229145683 PLU 21 BRUSHY DRAW 125H, thank you. This Remediation Closure Report is approved.	2/18/2025