ENSOLUM

June 17, 2025

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

Re: Closure Request
Flatland FNR Frac Line
Incident Number nAPP2435547582
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Mewbourne Oil Company (Mewbourne), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Flatland FNR Frac Line (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of produced water into the pasture. Based on field observations, field screening activities, and soil sample laboratory analytical results, Mewbourne is submitting this *Closure Request*, describing Site assessment and excavation activities that have occurred and requesting no further action for Incident Number nAPP2435547582.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit I, Section 17, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.30486°, -103.89709°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) and on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On December 16, 2024, a vehicle strike of a frac line resulted in the release of 185 barrels (bbls) of produced water into the surrounding pasture. No free-standing fluids were recovered. Mewbourne reported the release to the New Mexico Oil Conservation Division (NMOCD) on December 20, 2024. The release was assigned Incident Number nAPP2435547582.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according 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 are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closed permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) permitted well C-04018-POD1, located approximately 0.7 miles southeast of the Site. The groundwater well has a reported depth to

groundwater of 179 feet bgs and a total depth of 380 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located within the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, or church. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). 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): 100 mg/kg
- Chloride: 600 mg/kg

CULTURAL PROPERTIES PROTECTION RULE

The release occurred within the pasture within a dry wash. An Archaeological Records Management System (ARMS) review and pedestrian survey were completed at the Site. No cultural resources were identified within or around the release extent and disturbance areas. Completion of the ARMS review and pedestrian survey have complied with the Cultural Properties Protection Rule (CPP). A Cultural Resources Cover Sheet is attached as Appendix B.

BIOLOGICAL COMPLIANCE AND REPORTING

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

- No environmentally sensitive receptors were located near the Site as mentioned in the Site Characterization.
- The soil type is classified as Simona-Bippus complex according to the Web Soil Survey. Simona-Bippus complex is not considered a sensitive soil by the NMSLO definition.

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On January 20, 2025 and January 29, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight assessment soil samples (SS01 through SS08) were collected within the release extent from depths of 0.5 feet and 1-foot bgs to assess for the presence or absence of impacted soil. Twelve assessment soil samples (SS09 through SS20) were collected around the release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. The assessment soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and assessment 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 C.

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 contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for assessment soil samples SS01, SS02, SS04, SS05, SS07, and SS08, indicated all COC concentrations were compliant with the Closure Criteria at depths of 0.5 feet and 1-foot bgs. Laboratory analytical results for assessment soil sample SS03 indicated all COC concentrations were compliant with the Closure Criteria at 0.5 feet bgs, however, the terminal 1-foot soil sample indicated chloride concentrations exceeding the Closure Criteria. Laboratory analytical results for assessment soil sample SS06, collected at 0.5 feet bgs, indicated chloride concentrations exceeding the Closure Criteria. Terminal sample depths collected at 1-foot and 2 feet bgs indicated all COC concentrations were compliant with the Closure Criteria. Laboratory analytical results for assessment soil samples SS09 through SS20 indicated all COC concentrations were compliant with the Closure Criteria and successfully defined the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results for the assessment soil samples, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between May 6, 2025 and June 11, 2025, Ensolum personnel were at the Site to oversee excavation activities as indicated by visible staining, field screening activities, and laboratory analytical results the assessment soil samples. Excavation activities were performed via backhoe, trackhoe, and transport vehicles to a maximum depth of 3 feet bgs.

To direct excavation activities, Ensolum personnel screened soil for VOCs and chloride. Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor and sidewalls of the excavation and from the surface of the release extent initially in compliance with the Site Closure Criteria. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples CS01 through CS238 were collected from the floor of the excavation at depths ranging from 0.5 feet to 3 feet bgs. Composite sidewall soil samples SW01 through SW20 were collected from the sidewalls of the excavation at depths ranging from ground surface to 3 feet bgs. The composite soil samples were collected, handled, and analyzed following the same procedures as described above. The release extent, excavation extent, and composite soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 31,735 square feet. A total of approximately 2,350 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported from the Site to a Flatland facility in Texas. After completion of composite sampling, the excavation area was secured with fencing.

Laboratory analytical results for the excavation floor samples CS01 through CS238 and excavation sidewall samples SW01 through SW20, collected from the final excavation extent, indicated all COC

concentrations were compliant with the Site Closure Criteria. Based on laboratory analytical results, no further excavation was required. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix D.

RECLAMATION PLAN

The Site will be backfilled with locally procured sandy topsoil, consistent with the surrounding native soil type, and recontoured to match pre-existing conditions. One representative 5-point composite soil sample will be collected from the backfill material to confirm compliance with the NMOCD requirements for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg.

The reclaimed area will be seeded during the Spring/Summer of 2025 or Spring of 2026, when temperatures and precipitation are more conducive to vegetation growth. The portion of the release that occurred on Federal Land will be seeded with the below BLM seed mix #1 for loamy sites at a rate specified in pounds of pure live seed (PSL) per acre.

Species/Cultivar	PLS/Acre
Plains lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bourteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

The portion of the release that occurred on STL will be seeded with the below NMSLO loamy sites seed mix at a rate specified in PSL per acre.

Common Name	Variety	PLS/Acre
Black grama	VNS, Southern	1.0
Blue grama	Lovington	1.0
Sideoats grama	Vaughn, El Reno	4.0
Sand dropseed	VNS, Southern	2.0
Alkali sacaton	VNS, Southern	1.0
Little bluestem	Cimarron, Pastura	1.5

The seed mix will be applied via drill seeding or broadcast seeding. If broadcast seeding is selected, the PLS/acre will be doubled, and the seed will be raked in by chaining or dragging the Site.

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

- Erosion control of the newly reclaimed areas includes prompt revegetation and contouring of the surface to prevent concentrated surface water flow.
- Annual inspections will take place at the location to assess revegetation progress until vegetation is consistent with local natural vegetation density.
- If necessary, an additional application of the BLM seed mix will be applied.
- Noxious and invasive weeds will be identified and treated by a licensed contracted herbicide applicator or mechanically removed.

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

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the December 2024, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

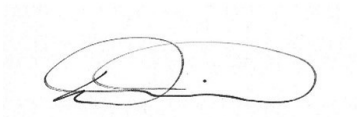
Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the Site. Mewbourne believes these remedial actions are protective of human health, the environment, and groundwater. As such, Mewbourne respectfully requests closure for Incident Number nAPP2435547582.

If you have any questions or comments, please contact Mr. Daniel R. Moir at (303) 887-2946 or dmoir@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



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

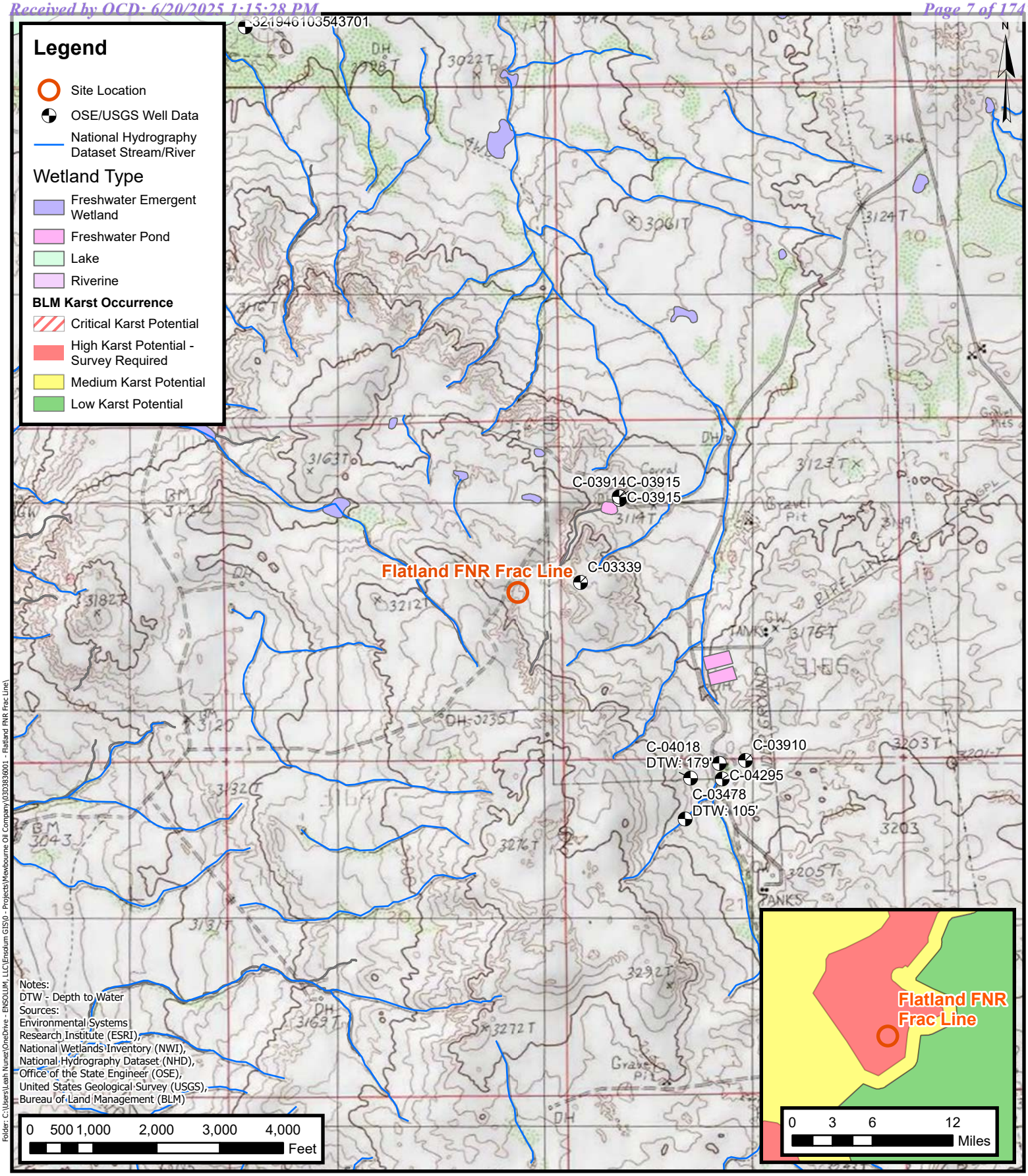
cc: Connor Walker, Mewbourne Oil Company
John Hall, Flatland Energy Services, LLC
Bureau of Land Management
New Mexico State Land Office

Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Composite Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	NMSLO Cultural Resources Cover Sheet
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Correspondence

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FIGURES



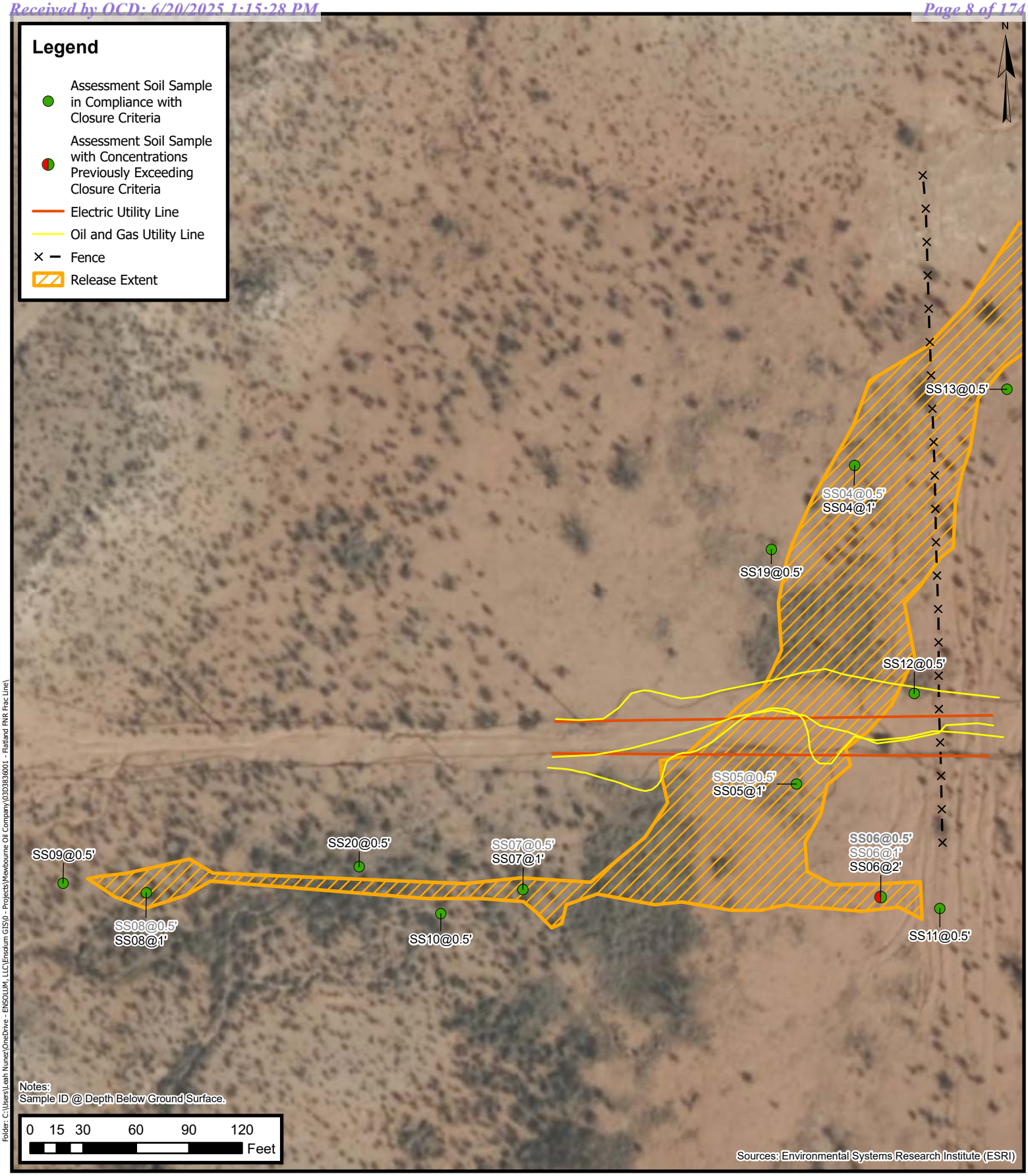
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Site Receptor Map

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 1



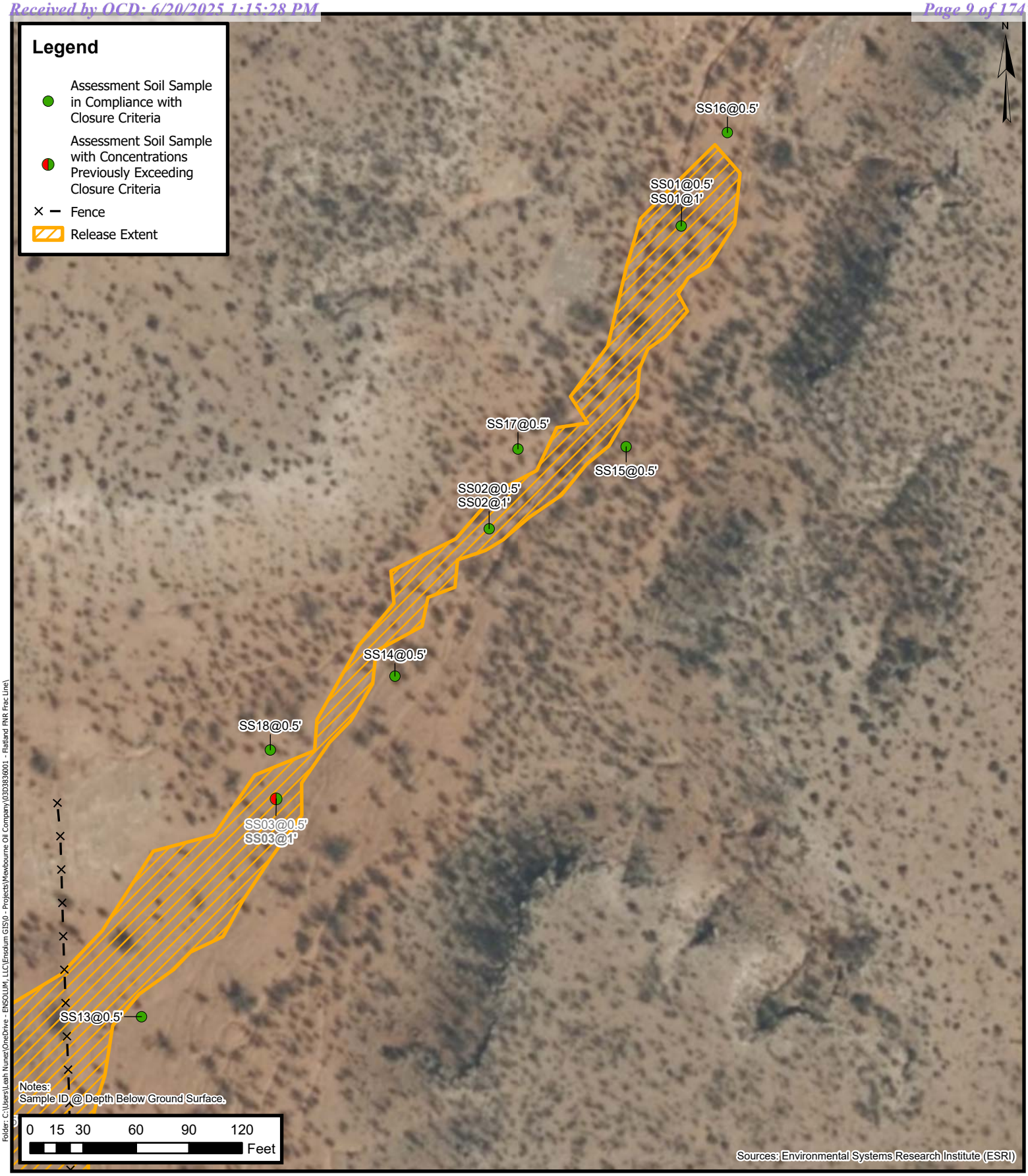
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Assessment Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 2a



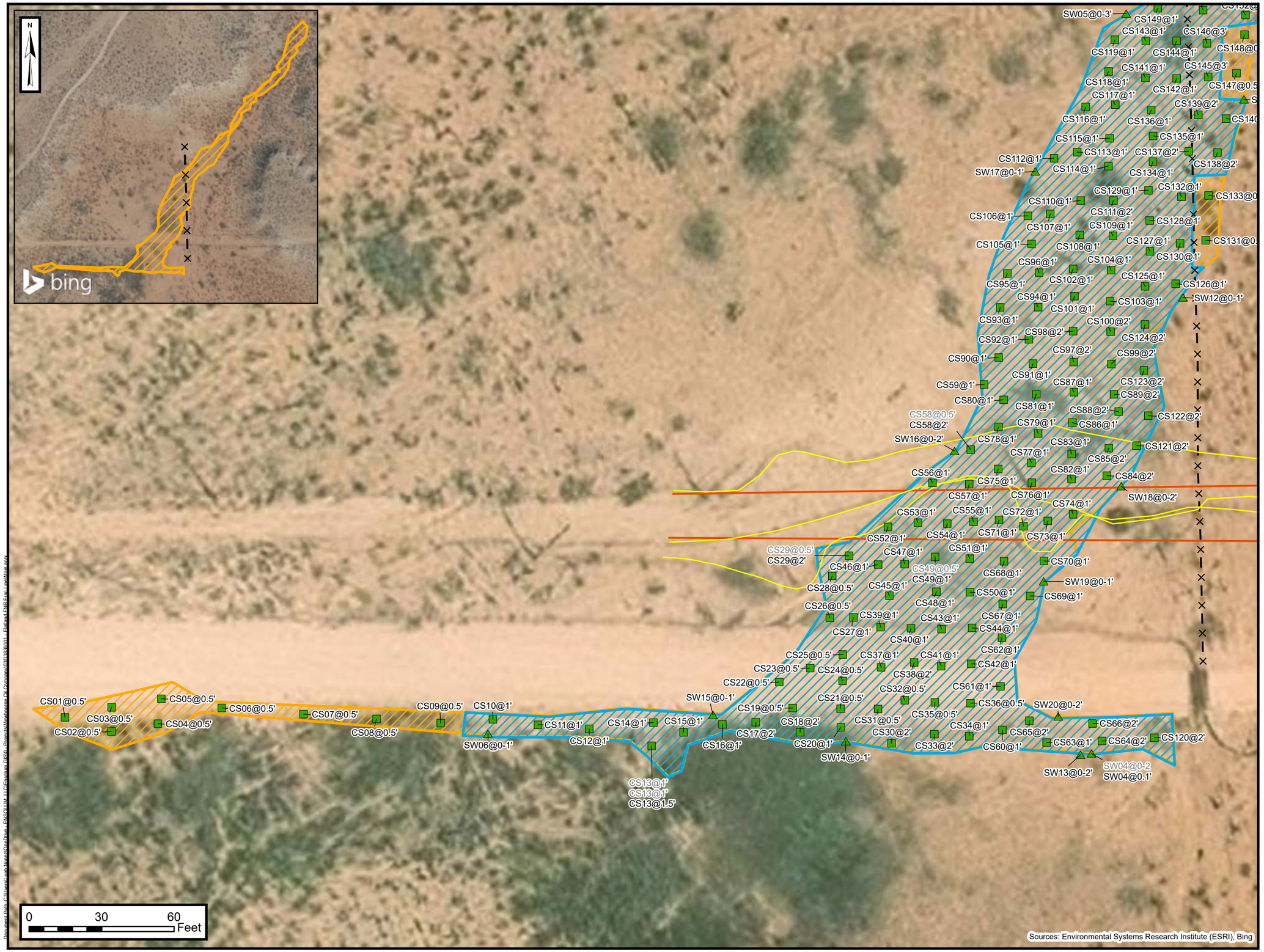
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Assessment Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 2b



Legend

- Composite Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Fence
- Excavation Extent
- Release Extent

Notes:
Sample ID @ Depth Below Ground Surface.

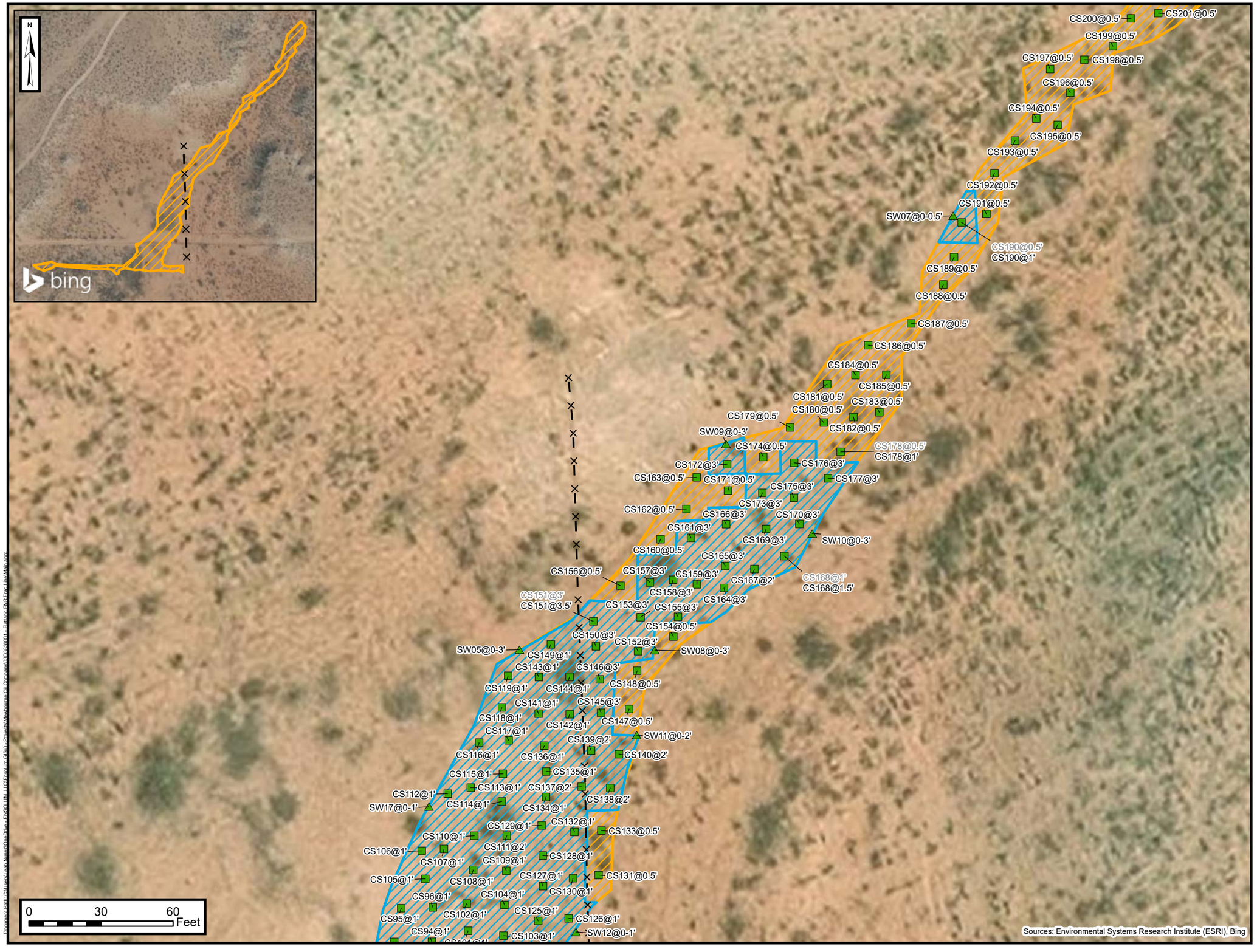
Composite Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 3a

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Legend

- Composite Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Fence
- Excavation Extent
- Release Extent

Notes:
Sample ID @ Depth Below Ground Surface.

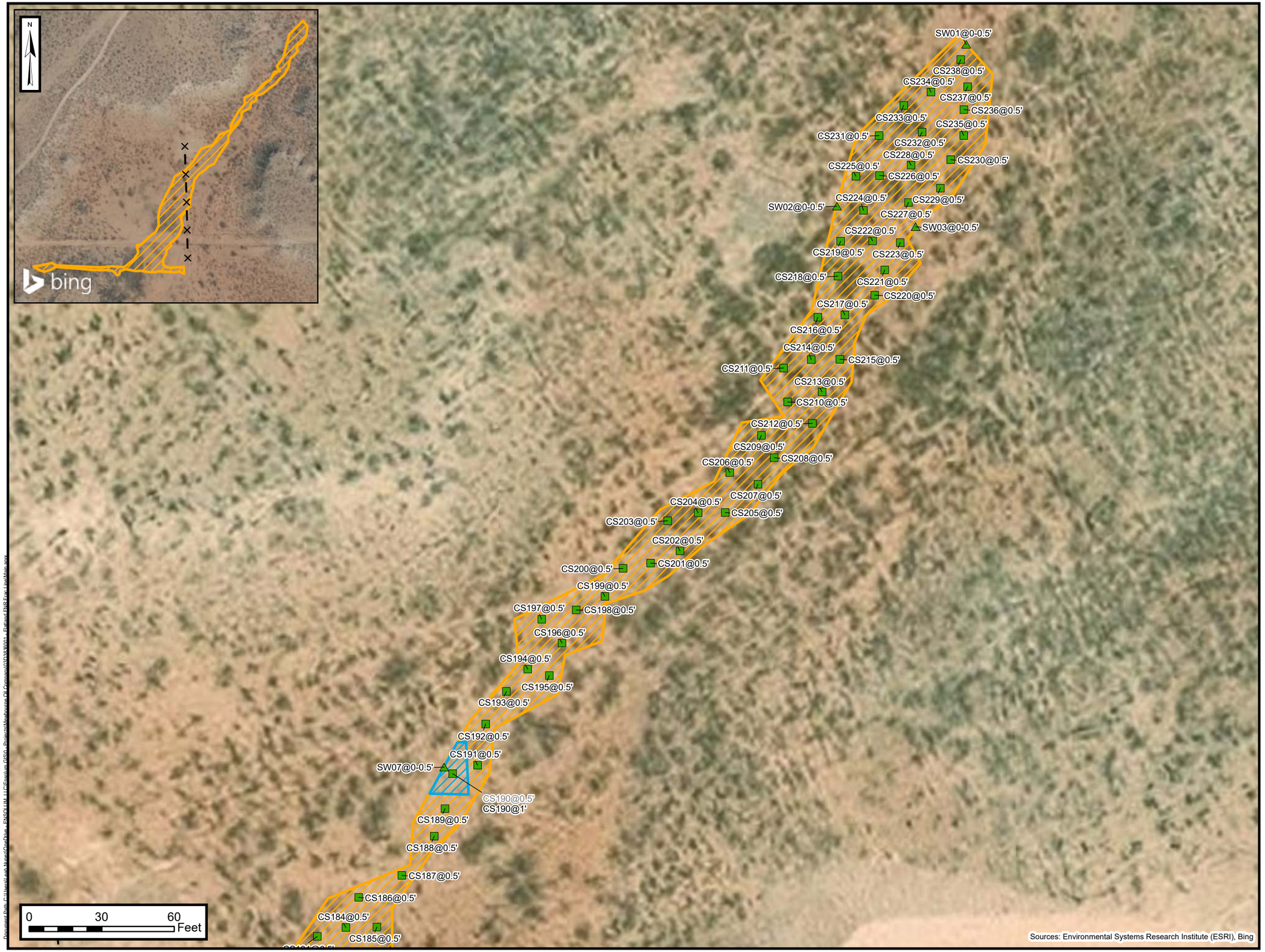
Composite Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 3b

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Legend

- Composite Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Fence
- Excavation Extent
- Release Extent

Notes:
Sample ID @ Depth Below Ground Surface.

Composite Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 3c

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	01/20/2025	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	18.8
SS01	01/29/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	13.8
SS02	01/20/2025	0.5	<0.00199	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	444
SS02	01/29/2025	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	17.6
~~SS03~~	~~01/20/2025~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~322~~
~~SS03~~	~~01/29/2025~~	~~1~~	~~<0.00200~~	~~<0.00400~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~827~~
~~SS04~~	~~01/20/2025~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~409~~
SS04	01/29/2025	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	592
~~SS05~~	~~01/20/2025~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~143~~
SS05	01/29/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	174
~~SS06~~	~~01/20/2025~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~2,990~~
~~SS06~~	~~01/29/2025~~	~~1~~	~~<0.00198~~	~~<0.00396~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~315~~
SS06	01/29/2025	2	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	374
~~SS07~~	~~01/20/2025~~	~~0.5~~	~~<0.00200~~	~~<0.00400~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~69.5~~
SS07	01/29/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	93.3
~~SS08~~	~~01/20/2025~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~221~~
SS08	01/29/2025	1	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	315
SS09	01/20/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	155
SS10	01/20/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	27.3
SS11	01/20/2025	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	529
SS12	01/20/2025	0.5	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	<10.0
SS13	01/20/2025	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	<9.96
SS14	01/20/2025	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	<10.0
SS15	01/20/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<10.0
SS16	01/20/2025	0.5	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	<10.1

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
SS17	01/20/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	13.2
SS18	01/20/2025	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	11.9
SS19	01/20/2025	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	27.6
SS20	01/20/2025	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	122
Excavation Composite Floor Soil Samples										
CS01	05/06/2025	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	264
CS02	05/06/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	327
CS03	05/06/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	78.0
CS04	05/06/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	253
CS05	05/06/2025	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	208
CS06	05/06/2025	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	129
CS07	05/06/2025	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	178
CS08	05/06/2025	0.5	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	95.3
CS09	05/06/2025	0.5	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	188
CS10	05/30/2025	1	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	343
CS11	05/30/2025	1	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	217
CS12	05/15/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	283
~~CS13~~	~~04/29/2025~~	~~1~~	~~<0.00200~~	~~<0.00400~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~649~~
~~CS13~~	~~05/15/2025~~	~~1~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~721~~
CS13	05/30/2025	1.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	381
CS14	05/15/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	241
CS15	05/15/2025	1	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	146
CS16	05/30/2025	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	509
CS17	05/15/2025	2	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	317
CS18	05/15/2025	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	141
CS19	05/30/2025	0.5	<0.00198	<0.00197	<50.1	<50.1	<50.1	<50.1	<50.1	259

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
CS20	05/16/2025	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	404
CS21	05/30/2025	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	318
CS22	05/30/2025	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	254
CS23	05/30/2025	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	103
CS24	05/30/2025	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	152
CS25	05/30/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	135
CS26	05/30/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	193
CS27	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	119
CS28	04/14/2025	0.5	<0.00201	0.0383	<50.3	<50.3	<50.3	<50.3	<50.3	455
~~CS29~~	~~04/14/2025~~	~~0.5~~	~~<0.00200~~	~~<0.00401~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~3,230~~
CS29	05/30/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	129
CS30	05/15/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	301
CS31	05/30/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	146
CS32	05/30/2025	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	128
CS33	04/30/2025	2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	587
CS34	05/16/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	575
CS35	05/30/2025	0.5	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	114
CS36	05/30/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	143
CS37	05/14/2025	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	254
CS38	05/14/2025	2	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	167
CS39	05/30/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	113
CS40	05/30/2025	1	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	80.2
CS41	05/14/2025	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	154
CS42	05/14/2025	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	162
CS43	05/30/2025	1	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	102
CS44	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	80.2

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS45	05/30/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	107
CS46	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	118
CS47	05/30/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	130
CS48	05/30/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	173
~~CS49~~	~~04/14/2025~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~1,950~~
CS49	05/30/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	61.6
CS50	05/30/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	164
CS51	05/30/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	109
CS52	05/30/2025	1	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	273
CS53	05/30/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	133
CS54	05/30/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	145
CS55	05/30/2025	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	67.6
CS56	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	97.0
CS57	05/30/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	141
~~CS58~~	~~04/14/2025~~	~~0.5~~	~~<0.00198~~	~~<0.00396~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~9,640~~
CS58	05/30/2025	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	63.6
CS59	05/30/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	216
CS60	05/16/2025	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	182
CS61	05/14/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	200
CS62	05/16/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	269
CS63	05/16/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	392
CS64	04/30/2025	2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	321
CS65	05/30/2025	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	126
CS66	05/01/2025	2	<0.00202	<0.00404	<50.3	<50.3	<50.3	<50.3	<50.3	154
CS67	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	111
CS68	05/30/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	86.4

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS69	05/30/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	109
CS70	05/30/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	132
CS71	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	134
CS72	05/30/2025	1	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	88.2
CS73	05/30/2025	1	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	124
CS74	05/30/2025	1	<0.00198	<0.00397	<50.1	<50.1	<50.1	<50.1	<50.1	106
CS75	05/30/2025	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	133
CS76	05/30/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	122
CS77	05/30/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	102
CS78	05/15/2025	1	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	423
CS79	05/15/2025	1	<0.00198	<0.00397	<50.1	<50.1	<50.1	<50.1	<50.1	290
CS80	05/15/2025	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	153
CS81	05/30/2025	1	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	<49.6	130
CS82	05/30/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	143
CS83	05/30/2025	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	118
CS84	05/30/2025	2	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	161
CS85	05/05/2025	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	287
CS86	05/16/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	121
CS87	05/16/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	481
CS88	05/05/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	191
CS89	05/05/2025	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	181
CS90	05/15/2025	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	135
CS91	05/15/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	239
CS92	05/15/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	180
CS93	05/15/2025	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	181
CS94	05/15/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	266

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS95	05/05/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	150
CS96	05/05/2025	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	242
CS97	05/16/2025	2	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	95.8
CS98	05/16/2025	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	108
CS99	05/05/2025	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	100
CS100	05/05/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	129
CS101	05/05/2025	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	402
CS102	05/05/2025	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	467
CS103	05/05/2025	1	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	385
CS104	05/16/2025	1	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	424
CS105	05/05/2025	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	88.8
CS106	05/05/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	182
CS107	05/05/2025	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	223
CS108	05/05/2025	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	265
CS109	05/05/2025	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	539
CS110	05/05/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	270
CS111	05/16/2025	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	162
CS112	05/02/2025	1	0.00212	0.00856	<50.0	<50.0	<50.0	<50.0	<50.0	211
CS113	05/02/2025	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	332
CS114	05/02/2025	1	<0.00199	0.00539	<50.1	<50.1	<50.1	<50.1	<50.1	304
CS115	05/02/2025	1	<0.00198	0.0106	<50.4	<50.4	<50.4	<50.4	<50.4	300
CS116	05/02/2025	1	<0.00198	<0.00397	<50.3	<50.3	<50.3	<50.3	<50.3	129
CS117	05/02/2025	1	0.00551	0.00551	<50.1	<50.1	<50.1	<50.1	<50.1	194
CS118	05/02/2025	1	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	93.4
CS119	05/02/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	144
CS120	05/01/2025	2	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	130

ENSOLUM

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS121	05/05/2025	2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	145
CS122	05/05/2025	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	203
CS123	05/02/2025	2	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	183
CS124	05/02/2025	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	253
CS125	05/02/2025	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	282
CS126	05/02/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	178
CS127	05/02/2025	1	0.00200	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	229
CS128	05/01/2025	1	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	<50.2	269
CS129	05/01/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	320
CS130	05/01/2025	1	<0.00202	<0.00404	<50.3	<50.3	<50.3	<50.3	<50.3	364
CS131	04/28/2025	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	116
CS132	05/01/2025	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	233
CS133	04/28/2025	0.5	0.00938	0.0172	<49.8	<49.8	<49.8	<49.8	<49.8	548
CS134	05/01/2025	1	<0.00202	<0.00403	<50.2	<50.2	<50.2	<50.2	<50.2	364
CS135	05/01/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	222
CS136	05/08/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	240
CS137	05/16/2025	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	237
CS138	05/16/2025	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	475
CS139	05/30/2025	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	194
CS140	05/30/2025	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	129
CS141	05/02/2025	1	<0.00200	0.0142	<49.7	<49.7	<49.7	<49.7	<49.7	288
CS142	05/01/2025	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	313
CS143	05/02/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	153
CS144	05/02/2025	1	<0.00202	<0.00404	<50.2	<50.2	<50.2	<50.2	<50.2	476
CS145	05/30/2025	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	133
CS146	05/30/2025	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	146

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS147	04/28/2025	0.5	0.00214	0.00614	<49.9	<49.9	<49.9	<49.9	<49.9	506
CS148	04/28/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	450
CS149	05/02/2025	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	190
CS150	05/16/2025	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	108
~~CS151~~	~~05/16/2025~~	~~3~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~699~~
CS151	05/30/2025	3.5	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	119
CS152	05/15/2025	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	146
CS153	05/15/2025	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	203
CS154	04/30/2025	0.5	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	121
CS155	05/15/2025	3	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	231
CS156	04/30/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	118
CS157	05/15/2025	3	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	225
CS158	05/15/2025	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	257
CS159	05/15/2025	3	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	298
CS160	04/28/2025	0.5	<0.00198	<0.00397	<3.57	<3.57	<3.57	<3.57	<3.57	415
CS161	05/15/2025	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	248
CS162	04/28/2025	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	270
CS163	04/28/2025	0.5	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	66.6
CS164	05/15/2025	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	364
CS165	05/15/2025	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	237
CS166	05/15/2025	3	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	247
CS167	05/30/2025	2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	71.2
~~CS168~~	~~05/14/2025~~	~~1~~	~~<0.00200~~	~~<0.00399~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~740~~
CS168	05/30/2025	1.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	173
CS169	05/15/2025	3	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	279
CS170	05/30/2025	3	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	111

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
CS171	04/28/2025	0.5	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	527
CS172	05/15/2025	3	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	571
CS173	05/15/2025	3	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	374
CS174	04/29/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	270
CS175	05/15/2025	3	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	235
CS176	05/15/2025	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	295
CS177	05/15/2025	3	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	105
~~CS178~~	~~04/29/2025~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~648~~
CS178	05/30/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	135
CS179	04/29/2025	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	350
CS180	04/29/2025	0.5	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	335
CS181	04/29/2025	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	125
CS182	04/29/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	343
CS183	04/29/2025	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	74.0
CS184	04/29/2025	0.5	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	474
CS185	04/29/2025	0.5	0.00200	0.00585	<49.7	<49.7	<49.7	<49.7	<49.7	105
CS186	04/29/2025	0.5	<0.00198	0.00670	<49.8	<49.8	<49.8	<49.8	<49.8	674
CS187	04/15/2025	0.5	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	132
CS188	04/15/2025	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	25.8
CS189	04/15/2025	0.5	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	95.7
~~CS190~~	~~04/15/2025~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~5,400~~
CS190	05/06/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	300
CS191	04/15/2025	0.5	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	97.7
CS192	04/15/2025	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	108
CS193	04/15/2025	0.5	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	107
CS194	05/06/2025	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	100

ENSOLUM

TABLE 1
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Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS195	04/15/2025	0.5	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	90.1
CS196	04/15/2025	0.5	<0.00202	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	72.6
CS197	04/15/2025	0.5	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	91.7
CS198	04/15/2025	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	102
CS199	05/06/2025	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	179
CS200	04/16/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	124
CS201	04/16/2025	0.5	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	80.8
CS202	04/16/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	65.4
CS203	04/15/2025	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	95.4
CS204	04/16/2025	0.5	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	98.0
CS205	04/16/2025	0.5	0.00298	0.0265	<50.0	<50.0	<50.0	<50.0	<50.0	108
CS206	04/16/2025	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	84.8
CS207	04/16/2025	0.5	<0.00200	0.00454	<50.0	<50.0	<50.0	<50.0	<50.0	89.2
CS208	04/16/2025	0.5	<0.00202	0.00588	<49.8	<49.8	<49.8	<49.8	<49.8	124
CS209	04/16/2025	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	71.4
CS210	04/29/2025	0.5	<0.00199	0.00497	<50.0	<50.0	<50.0	<50.0	<50.0	139
CS211	04/29/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	350
CS212	04/16/2025	0.5	0.00252	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	65.5
CS213	04/16/2025	0.5	<0.00199	0.00479	<50.0	<50.0	<50.0	<50.0	<50.0	62.2
CS214	04/16/2025	0.5	0.00208	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	271
CS215	04/16/2025	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	83.8
CS216	04/16/2025	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	104
CS217	04/16/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	81.4
CS218	04/16/2025	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	92.5
CS219	04/16/2025	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	93.8
CS220	04/16/2025	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	98.0

ENSOLUM

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
CS221	04/15/2025	0.5	<0.00200	<0.00401	<49.6	<49.6	<49.6	<49.6	<49.6	79.0
CS222	04/16/2025	0.5	<0.00202	0.00746	<49.9	<49.9	<49.9	<49.9	<49.9	113
CS223	04/16/2025	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	61.1
CS224	04/15/2025	0.5	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	104
CS225	04/16/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	101
CS226	04/16/2025	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	196
CS227	04/16/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	76.9
CS228	04/16/2025	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	97.1
CS229	04/16/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	46.5
CS230	04/15/2025	0.5	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	114
CS231	04/16/2025	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	80.8
CS232	04/16/2025	0.5	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	54.3
CS233	04/16/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	94.8
CS234	04/15/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	108
CS235	04/16/2025	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	75.7
CS236	04/16/2025	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	60.3
CS237	04/16/2025	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	90.9
CS238	04/29/2025	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	119
Excavation Composite Sidewall Soil Samples										
SW01	04/30/2025	0 - 0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	116
SW02	04/30/2025	0 - 0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	86.6
SW03	04/30/2025	0 -0.5	<0.00198	<0.00397	<50.2	<50.2	<50.2	<50.2	<50.2	99.2
~~SW04~~	~~04/30/2025~~	~~0 - 2~~	~~<0.00200~~	~~<0.00401~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,880**~~
SW04	05/16/2025	0 - 1	<0.00202	<0.00404	<50.2	<50.2	<50.2	<50.2	<50.2	136
SW05	05/16/2025	0 - 3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	107
SW06	05/30/2025	0 - 1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	72.9

ENSOLUM

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
SW07	05/06/2025	0 - 0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	191
SW08	05/30/2025	0 - 3	<0.00199	<0.00398	<50.0	57	<50.0	57	57.4	111
SW09	05/16/2025	0 - 3	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	297
SW10	05/30/2025	0 - 3	<0.00198	<0.00397	<50.3	<50.3	<50.3	<50.3	<50.3	45.8
SW11	05/30/2025	0 - 2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	119
SW12	05/16/2025	0 - 1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	249
SW13	05/30/2025	0 - 2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	104
SW14	06/11/2025	0 - 1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	219
SW15	06/11/2025	0 - 1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	397
SW16	06/11/2025	0 - 2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	117
SW17	06/11/2025	0 - 1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	137
SW18	06/11/2025	0 - 2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	96.9
SW19	06/11/2025	0 - 1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	309
SW20	06/11/2025	0 - 2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	96.7

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon

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

ENSOLUM

APPENDIX A

Referenced Well Records

Received by OCD: 6/20/2025 1:15:28 PM

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1		C-4018

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Jay Mobley c/o Mstapleton LLC	575-706-5659

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1108 W. Pierce St	Carlsbad	NM	88220

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	17	48.2	N
	LONGITUDE	103	53	18.1	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

NE 1/4 of NE 1/4 of NW 1/4 of Section 21, Township 23S, Range 30E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1737	Justin Mullins	WRR INC

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
3/24/2017	3/28/2017	380	380	179

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): 179

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40	17.5	(Surface casing) Steel	Welded	12	1/4	
0	120	12.5	Steel	Welded	8	1/4	
120	140	12.5	Steel	Welded	8	1/4	.035
140	180	12.5	Steel	Welded	8	1/4	
180	200	12.5	Steel	Welded	8	1/4	.035
200	220	12.5	Steel	Welded	8	1/4	
220	240	12.5	Steel	Welded	8	1/4	.035
240	260	12.5	Steel	Welded	8	1/4	
260	360	12.5	Steel	Welded	8	1/4	.035
360	380	12.5	Steel	Welded	8	1/4	

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	40	17.5	(Surface casing) Portland Cement	31.3	Hand
0	20	12.5	Portland Cement	9.2	Hand
20	380	12.5	Pea Gravel	165	Hand

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	C-4018 EXPL	POD NO.	1	TRN NO.	602135
LOCATION	2 2 1 Sec21 T23SR30E	WELL TAG ID NO.	NA	PAGE 1 OF 2	

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Received by OCD: 6/20/2025 1:15:28 PM

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10	10	Topsoil	Y ✔ N	
10	25	15	Caliche	Y ✔ N	
25	35	10	Hard White Rock	Y ✔ N	
35	70	35	Red Sand/Clay Mix	Y ✔ N	
70	75	5	Sandstone	Y ✔ N	
75	170	95	Hard Glassy White Rock	Y ✔ N	
170	180	10	Fractured Rock	✔ Y N	5.00
180	190	10	Red Clay	Y ✔ N	
190	223	33	Sand & Gravel	✔ Y N	60.00
223	240	17	Tan Rock	Y ✔ N	
240	255	15	Red Sand	Y ✔ N	
255	260	5	Hard Rock	Y ✔ N	
260	375	115	Gravel/Grey Clay Conglomerate	Y ✔ N	
375	380	5	Red Clay	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☑ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 65.00

2017 SEP 11 PM 1:23 STATE ENGINEER OFFICE ROSWELL, NEW MEXICO

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Austin Gregory

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Justin Mullins — 4-1-2017

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4018	POD NO. 1	TRN NO. 607135	
LOCATION 221 Sec 21 T23S R30E		WELL TAG ID NO. NA	PAGE 2 OF 2

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APPENDIX B

NMSLO Cultural Resources Cover Sheet

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

(A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
(B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
(C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number: Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

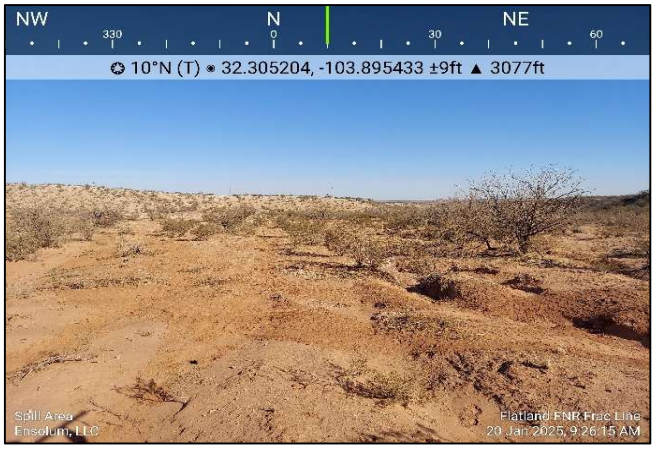
ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
Mewbourne Oil Company
Flatland FNR Frac Line
Eddy County, New Mexico



Photograph: 1 Date: 1/20/2025
Description: Initial assessment activities
View: North



Photograph: 2 Date: 1/20/2025
Description: Initial assessment activities
View: East



Photograph: 3 Date: 5/6/2025
Description: Excavation activities
View: Southwest



Photograph: 4 Date: 5/14/2025
Description: Excavation activities
View: South

ENSOLUM

Photographic Log
Flatland Energy Services LLC
Flatland FNR Frac Line
Eddy County, NM



Photograph: 5 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 6 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 7 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 8 Date: 5/30/2025
Description: Excavation activities
View: Northwest

ENSOLUM

Photographic Log
Flatland Energy Services LLC
Flatland FNR Frac Line
Eddy County, NM



Photograph: 9 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 10 Date: 5/30/2025
Description: Fence and Excavation activities
View: Northwest



Photograph: 11 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 12 Date: 5/30/2025
Description: Excavation activities
View: Northwest

ENSOLUM

Photographic Log
Flatland Energy Services LLC
Flatland FNR Frac Line
Eddy County, NM



Photograph: 13 Date: 6/11/2025
Description: Composite sampling activities
View: Southeast



Photograph: 14 Date: 6/11/2025
Description: Composite sampling activities
View: East



Photograph: 15 Date: 6/11/2025
Description: Composite soil sampling activities
View: North



Photograph: 16 Date: 6/11/2025
Description: Composite soil sampling activities
View: Southeast

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/22/2025 12:44:00 PM

JOB DESCRIPTION

FLAHAND FNR FRACLINE
03D36001

JOB NUMBER

890-7585-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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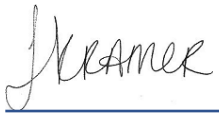
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Laboratory Job ID: 890-7585-1
SDG: 03D36001

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Definitions/Glossary

Client: Ensolum Job ID: 890-7585-1
Project/Site: FLAHAND FNR FRACLINE SDG: 03D36001

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 890-7585-1
Project: FLAHAND FNR FRACLINE

Job ID: 890-7585-1 Eurofins Carlsbad

Job Narrative
890-7585-1

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

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

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

Receipt
The samples were received on 1/20/2025 3:54 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 0.4°C.

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-100717 and analytical batch 880-100737 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-100717 and analytical batch 880-100737 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-100717/2-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
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-100746 and analytical batch 880-100761 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS01

Lab Sample ID: 890-7585-1
Matrix: Solid
Date Collected: 01/20/25 09:35
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:38*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/21/25 11:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/21/25 12:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 12:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 12:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 12:47*	*1*
o-Terphenyl	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 12:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.8**		9.98		mg/Kg			01/21/25 22:26	1

Client Sample ID: SS02

Lab Sample ID: 890-7585-2
Matrix: Solid
Date Collected: 01/20/25 09:41
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:58*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS02

Lab Sample ID: 890-7585-2
Matrix: Solid
Date Collected: 01/20/25 09:41
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:58*	*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			01/21/25 11:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/21/25 13:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/25 20:25	01/21/25 13:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/25 20:25	01/21/25 13:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/25 20:25	01/21/25 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:28*	*1*
o-Terphenyl	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**444**		10.1	mg/Kg			01/21/25 22:32	1

Client Sample ID: SS03

Lab Sample ID: 890-7585-3
Matrix: Solid
Date Collected: 01/20/25 09:47
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/21/25 08:00	01/21/25 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:18*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/21/25 12:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/21/25 13:43	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS03

Lab Sample ID: 890-7585-3
Matrix: Solid
Date Collected: 01/20/25 09:47
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 13:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 13:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:43*	*1*
o-Terphenyl	*82*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**322**		10.1		mg/Kg			01/21/25 22:37	1

Client Sample ID: SS04

Lab Sample ID: 890-7585-4
Matrix: Solid
Date Collected: 01/20/25 12:47
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:39*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:39*	*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			01/21/25 12:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 13:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 13:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 13:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:57*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:57*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS04

Lab Sample ID: 890-7585-4
Matrix: Solid
Date Collected: 01/20/25 12:47
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		9.96		mg/Kg			01/21/25 22:54	1

Client Sample ID: SS05

Lab Sample ID: 890-7585-5
Matrix: Solid
Date Collected: 01/20/25 12:40
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:59*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/21/25 12:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 14:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 14:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 14:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:12*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		10.0		mg/Kg			01/21/25 23:00	1

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS06

Lab Sample ID: 890-7585-6
Matrix: Solid
Date Collected: 01/20/25 12:25
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 13:20*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 13:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/21/25 13:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 14:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 14:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 14:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:26*	*1*
o-Terphenyl	*86*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2990**		50.4		mg/Kg			01/21/25 23:06	5

Client Sample ID: SS07

Lab Sample ID: 890-7585-7
Matrix: Solid
Date Collected: 01/20/25 12:27
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:00	01/21/25 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/21/25 08:00*	*01/21/25 13:40*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS07

Lab Sample ID: 890-7585-7
Matrix: Solid

Date Collected: 01/20/25 12:27
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 13:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/21/25 13:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/21/25 14:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/20/25 20:25	01/21/25 14:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/25 20:25	01/21/25 14:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/25 20:25	01/21/25 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:39*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.5**		10.0	mg/Kg			01/21/25 23:11	1

Client Sample ID: SS08

Lab Sample ID: 890-7585-8
Matrix: Solid

Date Collected: 01/20/25 12:35
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/21/25 08:00	01/21/25 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:01*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/21/25 14:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/21/25 14:54	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS08

Lab Sample ID: 890-7585-8
Matrix: Solid
Date Collected: 01/20/25 12:35
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 14:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 14:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:54*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**221**		10.1		mg/Kg			01/21/25 23:17	1

Client Sample ID: SS09

Lab Sample ID: 890-7585-9
Matrix: Solid
Date Collected: 01/20/25 12:37
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:21*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/21/25 14:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/21/25 15:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 15:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:08*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS09

Lab Sample ID: 890-7585-9
Matrix: Solid
Date Collected: 01/20/25 12:37
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		10.0		mg/Kg			01/21/25 23:23	1

Client Sample ID: SS10

Lab Sample ID: 890-7585-10
Matrix: Solid
Date Collected: 01/20/25 12:29
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:42*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/21/25 14:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 15:22	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:22*	*1*
o-Terphenyl	*82*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.3		10.1		mg/Kg			01/21/25 23:40	1

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS11

Lab Sample ID: 890-7585-11
Matrix: Solid
Date Collected: 01/20/25 12:22
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:09*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/21/25 16:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 15:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:51*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**529**		9.96		mg/Kg			01/21/25 23:45	1

Client Sample ID: SS12

Lab Sample ID: 890-7585-12
Matrix: Solid
Date Collected: 01/20/25 12:42
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:29*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS12

Lab Sample ID: 890-7585-12
Matrix: Solid
Date Collected: 01/20/25 12:42
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/21/25 16:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 16:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:05	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:05*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/22/25 00:02	1

Client Sample ID: SS13

Lab Sample ID: 890-7585-13
Matrix: Solid
Date Collected: 01/20/25 09:49
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:50*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/21/25 16:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 16:19	1

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Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS13

Lab Sample ID: 890-7585-13
Matrix: Solid
Date Collected: 01/20/25 09:49
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:19	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:19	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:19*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			01/22/25 00:08	1

Client Sample ID: SS14

Lab Sample ID: 890-7585-14
Matrix: Solid
Date Collected: 01/20/25 09:43
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:00	01/21/25 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:10*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/21/25 17:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/21/25 16:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 16:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:33*	*1*
o-Terphenyl	*74*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:33*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS14

Lab Sample ID: 890-7585-14
Matrix: Solid
Date Collected: 01/20/25 09:43
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/22/25 00:14	1

Client Sample ID: SS15

Lab Sample ID: 890-7585-15
Matrix: Solid
Date Collected: 01/20/25 09:37
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:30*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:30*	*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			01/21/25 17:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 16:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 16:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 16:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:47*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/22/25 00:19	1

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS16

Lab Sample ID: 890-7585-16
Matrix: Solid
Date Collected: 01/20/25 09:32
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/21/25 17:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/21/25 17:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/20/25 20:25	01/21/25 17:02	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/20/25 20:25	01/21/25 17:02	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/20/25 20:25	01/21/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:02*	*1*
o-Terphenyl	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			01/22/25 00:25	1

Client Sample ID: SS17

Lab Sample ID: 890-7585-17
Matrix: Solid
Date Collected: 01/20/25 09:39
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS17

Lab Sample ID: 890-7585-17
Matrix: Solid
Date Collected: 01/20/25 09:39
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:11*	*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			01/21/25 18:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/21/25 17:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/20/25 20:25	01/21/25 17:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/20/25 20:25	01/21/25 17:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/20/25 20:25	01/21/25 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:15*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.2**		9.96	mg/Kg			01/22/25 00:31	1

Client Sample ID: SS18

Lab Sample ID: 890-7585-18
Matrix: Solid
Date Collected: 01/20/25 09:45
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/21/25 08:00	01/21/25 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:32*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/21/25 18:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/21/25 17:30	1

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Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS18

Lab Sample ID: 890-7585-18
Matrix: Solid
Date Collected: 01/20/25 09:45
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 17:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:30*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.9**		9.98		mg/Kg			01/22/25 00:36	1

Client Sample ID: SS19

Lab Sample ID: 890-7585-19
Matrix: Solid
Date Collected: 01/20/25 12:44
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:52*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/21/25 18:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 17:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 17:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 17:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:44*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:44*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS19

Lab Sample ID: 890-7585-19
Matrix: Solid
Date Collected: 01/20/25 12:44
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.6		9.94		mg/Kg			01/21/25 18:45	1

Client Sample ID: SS20

Lab Sample ID: 890-7585-20
Matrix: Solid
Date Collected: 01/20/25 12:33
Date Received: 01/20/25 15:54
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/21/25 08:00*	*01/21/25 19:13*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/21/25 08:00*	*01/21/25 19:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/21/25 19:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 17:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 17:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 17:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:58*	*1*
o-Terphenyl	*74*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		10.0		mg/Kg			01/21/25 18:52	1

Surrogate Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7585-1	SS01	106	99
890-7585-1 MS	SS01	101	99
890-7585-1 MSD	SS01	99	100
890-7585-2	SS02	105	100
890-7585-3	SS03	109	99
890-7585-4	SS04	104	97
890-7585-5	SS05	107	99
890-7585-6	SS06	106	98
890-7585-7	SS07	113	98
890-7585-8	SS08	114	98
890-7585-9	SS09	102	98
890-7585-10	SS10	106	98
890-7585-11	SS11	110	99
890-7585-12	SS12	110	98
890-7585-13	SS13	106	98
890-7585-14	SS14	106	98
890-7585-15	SS15	104	98
890-7585-16	SS16	107	100
890-7585-17	SS17	106	98
890-7585-18	SS18	103	99
890-7585-19	SS19	104	98
890-7585-20	SS20	107	100
LCS 880-100726/1-A	Lab Control Sample	99	100
LCSD 880-100726/2-A	Lab Control Sample Dup	96	99
MB 880-100726/5-A	Method Blank	102	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7585-1	SS01	81	80
890-7585-1 MS	SS01	88	83
890-7585-1 MSD	SS01	88	83
890-7585-2	SS02	82	81
890-7585-3	SS03	85	82
890-7585-4	SS04	76	72
890-7585-5	SS05	80	77
890-7585-6	SS06	89	86
890-7585-7	SS07	81	78
890-7585-8	SS08	81	78
890-7585-9	SS09	80	76
890-7585-10	SS10	84	82
890-7585-11	SS11	79	78
890-7585-12	SS12	80	78

Surrogate Summary

Client: Ensolum Job ID: 890-7585-1
Project/Site: FLAHAND FNR FRACLINE SDG: 03D36001

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-7585-13	SS13	82	79								
890-7585-14	SS14	77	74								
890-7585-15	SS15	79	78								
890-7585-16	SS16	81	80								
890-7585-17	SS17	78	77								
890-7585-18	SS18	78	76								
890-7585-19	SS19	84	83								
890-7585-20	SS20	74	74								
LCS 880-100717/2-A	Lab Control Sample	132 S1+	119								
LCSD 880-100717/3-A	Lab Control Sample Dup	125	115								
MB 880-100717/1-A	Method Blank	151 S1+	151 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100726/5-A
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100726

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:16*	*1*

Lab Sample ID: LCS 880-100726/1-A
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100726

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09008		mg/Kg		90	70 - 130		
Toluene			0.100	0.09222		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09630		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.1810		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.09131		mg/Kg		91	70 - 130		

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

Lab Sample ID: LCSD 880-100726/2-A
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100726

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09097		mg/Kg		91	70 - 130	1	35
Toluene			0.100	0.09380		mg/Kg		94	70 - 130	2	35
Ethylbenzene			0.100	0.09694		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1811		mg/Kg		91	70 - 130	0	35
o-Xylene			0.100	0.09126		mg/Kg		91	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7585-1 MS
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.08211		mg/Kg		82	70 - 130		
Toluene	<0.00202	U	0.100	0.08345		mg/Kg		83	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

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

Lab Sample ID: 890-7585-1 MS
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.08505		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1597		mg/Kg		80	70 - 130
o-Xylene	<0.00202	U	0.100	0.08106		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7585-1 MSD
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08334		mg/Kg		83	70 - 130	1	35
Toluene	<0.00202	U	0.100	0.08539		mg/Kg		85	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.100	0.08632		mg/Kg		86	70 - 130	1	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1611		mg/Kg		81	70 - 130	1	35
o-Xylene	<0.00202	U	0.100	0.08163		mg/Kg		82	70 - 130	1	35

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

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

Lab Sample ID: MB 880-100717/1-A
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100717

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 05:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 05:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 05:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*01/20/25 20:25*	*01/21/25 05:32*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*01/20/25 20:25*	*01/21/25 05:32*	*1*

Lab Sample ID: LCS 880-100717/2-A
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100717

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	991.9		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1126		mg/Kg		113	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

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

Lab Sample ID: LCS 880-100717/2-A
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100717

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-100717/3-A
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100717

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	868.6		mg/Kg		87	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	1066		mg/Kg		107	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-7585-1 MS
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	801.2		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	819.4		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-7585-1 MSD
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	798.6		mg/Kg		80	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	792.3		mg/Kg		79	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	83		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100746/1-A
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/21/25 14:47	1

Lab Sample ID: LCS 880-100746/2-A
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-100746/3-A
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-53401-A-6-F MS
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<9.96	U F1	249	280.6	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-53401-A-6-G MSD
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<9.96	U F1	249	273.1		mg/Kg		109	90 - 110	3	20

Lab Sample ID: MB 880-100747/1-A
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/21/25 21:47	1

Lab Sample ID: LCS 880-100747/2-A
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.6		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-100747/3-A
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.9		mg/Kg		102	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7585-9 MS
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: SS09
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	155		250	420.8		mg/Kg		106	90 - 110		

Lab Sample ID: 890-7585-9 MSD
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: SS09
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	155		250	421.1		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

GC VOA

Prep Batch: 100726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	5035	
890-7585-2	SS02	Total/NA	Solid	5035	
890-7585-3	SS03	Total/NA	Solid	5035	
890-7585-4	SS04	Total/NA	Solid	5035	
890-7585-5	SS05	Total/NA	Solid	5035	
890-7585-6	SS06	Total/NA	Solid	5035	
890-7585-7	SS07	Total/NA	Solid	5035	
890-7585-8	SS08	Total/NA	Solid	5035	
890-7585-9	SS09	Total/NA	Solid	5035	
890-7585-10	SS10	Total/NA	Solid	5035	
890-7585-11	SS11	Total/NA	Solid	5035	
890-7585-12	SS12	Total/NA	Solid	5035	
890-7585-13	SS13	Total/NA	Solid	5035	
890-7585-14	SS14	Total/NA	Solid	5035	
890-7585-15	SS15	Total/NA	Solid	5035	
890-7585-16	SS16	Total/NA	Solid	5035	
890-7585-17	SS17	Total/NA	Solid	5035	
890-7585-18	SS18	Total/NA	Solid	5035	
890-7585-19	SS19	Total/NA	Solid	5035	
890-7585-20	SS20	Total/NA	Solid	5035	
MB 880-100726/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100726/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100726/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7585-1 MS	SS01	Total/NA	Solid	5035	
890-7585-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 100728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	8021B	100726
890-7585-2	SS02	Total/NA	Solid	8021B	100726
890-7585-3	SS03	Total/NA	Solid	8021B	100726
890-7585-4	SS04	Total/NA	Solid	8021B	100726
890-7585-5	SS05	Total/NA	Solid	8021B	100726
890-7585-6	SS06	Total/NA	Solid	8021B	100726
890-7585-7	SS07	Total/NA	Solid	8021B	100726
890-7585-8	SS08	Total/NA	Solid	8021B	100726
890-7585-9	SS09	Total/NA	Solid	8021B	100726
890-7585-10	SS10	Total/NA	Solid	8021B	100726
890-7585-11	SS11	Total/NA	Solid	8021B	100726
890-7585-12	SS12	Total/NA	Solid	8021B	100726
890-7585-13	SS13	Total/NA	Solid	8021B	100726
890-7585-14	SS14	Total/NA	Solid	8021B	100726
890-7585-15	SS15	Total/NA	Solid	8021B	100726
890-7585-16	SS16	Total/NA	Solid	8021B	100726
890-7585-17	SS17	Total/NA	Solid	8021B	100726
890-7585-18	SS18	Total/NA	Solid	8021B	100726
890-7585-19	SS19	Total/NA	Solid	8021B	100726
890-7585-20	SS20	Total/NA	Solid	8021B	100726
MB 880-100726/5-A	Method Blank	Total/NA	Solid	8021B	100726
LCS 880-100726/1-A	Lab Control Sample	Total/NA	Solid	8021B	100726
LCSD 880-100726/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100726

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

GC VOA (Continued)

Analysis Batch: 100728 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1 MS	SS01	Total/NA	Solid	8021B	100726
890-7585-1 MSD	SS01	Total/NA	Solid	8021B	100726

Analysis Batch: 100902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	Total BTEX	
890-7585-2	SS02	Total/NA	Solid	Total BTEX	
890-7585-3	SS03	Total/NA	Solid	Total BTEX	
890-7585-4	SS04	Total/NA	Solid	Total BTEX	
890-7585-5	SS05	Total/NA	Solid	Total BTEX	
890-7585-6	SS06	Total/NA	Solid	Total BTEX	
890-7585-7	SS07	Total/NA	Solid	Total BTEX	
890-7585-8	SS08	Total/NA	Solid	Total BTEX	
890-7585-9	SS09	Total/NA	Solid	Total BTEX	
890-7585-10	SS10	Total/NA	Solid	Total BTEX	
890-7585-11	SS11	Total/NA	Solid	Total BTEX	
890-7585-12	SS12	Total/NA	Solid	Total BTEX	
890-7585-13	SS13	Total/NA	Solid	Total BTEX	
890-7585-14	SS14	Total/NA	Solid	Total BTEX	
890-7585-15	SS15	Total/NA	Solid	Total BTEX	
890-7585-16	SS16	Total/NA	Solid	Total BTEX	
890-7585-17	SS17	Total/NA	Solid	Total BTEX	
890-7585-18	SS18	Total/NA	Solid	Total BTEX	
890-7585-19	SS19	Total/NA	Solid	Total BTEX	
890-7585-20	SS20	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	8015NM Prep	
890-7585-2	SS02	Total/NA	Solid	8015NM Prep	
890-7585-3	SS03	Total/NA	Solid	8015NM Prep	
890-7585-4	SS04	Total/NA	Solid	8015NM Prep	
890-7585-5	SS05	Total/NA	Solid	8015NM Prep	
890-7585-6	SS06	Total/NA	Solid	8015NM Prep	
890-7585-7	SS07	Total/NA	Solid	8015NM Prep	
890-7585-8	SS08	Total/NA	Solid	8015NM Prep	
890-7585-9	SS09	Total/NA	Solid	8015NM Prep	
890-7585-10	SS10	Total/NA	Solid	8015NM Prep	
890-7585-11	SS11	Total/NA	Solid	8015NM Prep	
890-7585-12	SS12	Total/NA	Solid	8015NM Prep	
890-7585-13	SS13	Total/NA	Solid	8015NM Prep	
890-7585-14	SS14	Total/NA	Solid	8015NM Prep	
890-7585-15	SS15	Total/NA	Solid	8015NM Prep	
890-7585-16	SS16	Total/NA	Solid	8015NM Prep	
890-7585-17	SS17	Total/NA	Solid	8015NM Prep	
890-7585-18	SS18	Total/NA	Solid	8015NM Prep	
890-7585-19	SS19	Total/NA	Solid	8015NM Prep	
890-7585-20	SS20	Total/NA	Solid	8015NM Prep	
MB 880-100717/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

GC Semi VOA (Continued)

Prep Batch: 100717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-100717/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7585-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-7585-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	8015B NM	100717
890-7585-2	SS02	Total/NA	Solid	8015B NM	100717
890-7585-3	SS03	Total/NA	Solid	8015B NM	100717
890-7585-4	SS04	Total/NA	Solid	8015B NM	100717
890-7585-5	SS05	Total/NA	Solid	8015B NM	100717
890-7585-6	SS06	Total/NA	Solid	8015B NM	100717
890-7585-7	SS07	Total/NA	Solid	8015B NM	100717
890-7585-8	SS08	Total/NA	Solid	8015B NM	100717
890-7585-9	SS09	Total/NA	Solid	8015B NM	100717
890-7585-10	SS10	Total/NA	Solid	8015B NM	100717
890-7585-11	SS11	Total/NA	Solid	8015B NM	100717
890-7585-12	SS12	Total/NA	Solid	8015B NM	100717
890-7585-13	SS13	Total/NA	Solid	8015B NM	100717
890-7585-14	SS14	Total/NA	Solid	8015B NM	100717
890-7585-15	SS15	Total/NA	Solid	8015B NM	100717
890-7585-16	SS16	Total/NA	Solid	8015B NM	100717
890-7585-17	SS17	Total/NA	Solid	8015B NM	100717
890-7585-18	SS18	Total/NA	Solid	8015B NM	100717
890-7585-19	SS19	Total/NA	Solid	8015B NM	100717
890-7585-20	SS20	Total/NA	Solid	8015B NM	100717
MB 880-100717/1-A	Method Blank	Total/NA	Solid	8015B NM	100717
LCS 880-100717/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100717
LCSD 880-100717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100717
890-7585-1 MS	SS01	Total/NA	Solid	8015B NM	100717
890-7585-1 MSD	SS01	Total/NA	Solid	8015B NM	100717

Analysis Batch: 100888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	8015 NM	
890-7585-2	SS02	Total/NA	Solid	8015 NM	
890-7585-3	SS03	Total/NA	Solid	8015 NM	
890-7585-4	SS04	Total/NA	Solid	8015 NM	
890-7585-5	SS05	Total/NA	Solid	8015 NM	
890-7585-6	SS06	Total/NA	Solid	8015 NM	
890-7585-7	SS07	Total/NA	Solid	8015 NM	
890-7585-8	SS08	Total/NA	Solid	8015 NM	
890-7585-9	SS09	Total/NA	Solid	8015 NM	
890-7585-10	SS10	Total/NA	Solid	8015 NM	
890-7585-11	SS11	Total/NA	Solid	8015 NM	
890-7585-12	SS12	Total/NA	Solid	8015 NM	
890-7585-13	SS13	Total/NA	Solid	8015 NM	
890-7585-14	SS14	Total/NA	Solid	8015 NM	
890-7585-15	SS15	Total/NA	Solid	8015 NM	
890-7585-16	SS16	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

GC Semi VOA (Continued)

Analysis Batch: 100888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-17	SS17	Total/NA	Solid	8015 NM	
890-7585-18	SS18	Total/NA	Solid	8015 NM	
890-7585-19	SS19	Total/NA	Solid	8015 NM	
890-7585-20	SS20	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-19	SS19	Soluble	Solid	DI Leach	
890-7585-20	SS20	Soluble	Solid	DI Leach	
MB 880-100746/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100746/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100746/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53401-A-6-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-53401-A-6-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 100747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Soluble	Solid	DI Leach	
890-7585-2	SS02	Soluble	Solid	DI Leach	
890-7585-3	SS03	Soluble	Solid	DI Leach	
890-7585-4	SS04	Soluble	Solid	DI Leach	
890-7585-5	SS05	Soluble	Solid	DI Leach	
890-7585-6	SS06	Soluble	Solid	DI Leach	
890-7585-7	SS07	Soluble	Solid	DI Leach	
890-7585-8	SS08	Soluble	Solid	DI Leach	
890-7585-9	SS09	Soluble	Solid	DI Leach	
890-7585-10	SS10	Soluble	Solid	DI Leach	
890-7585-11	SS11	Soluble	Solid	DI Leach	
890-7585-12	SS12	Soluble	Solid	DI Leach	
890-7585-13	SS13	Soluble	Solid	DI Leach	
890-7585-14	SS14	Soluble	Solid	DI Leach	
890-7585-15	SS15	Soluble	Solid	DI Leach	
890-7585-16	SS16	Soluble	Solid	DI Leach	
890-7585-17	SS17	Soluble	Solid	DI Leach	
890-7585-18	SS18	Soluble	Solid	DI Leach	
MB 880-100747/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100747/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100747/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7585-9 MS	SS09	Soluble	Solid	DI Leach	
890-7585-9 MSD	SS09	Soluble	Solid	DI Leach	

Analysis Batch: 100761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-19	SS19	Soluble	Solid	300.0	100746
890-7585-20	SS20	Soluble	Solid	300.0	100746
MB 880-100746/1-A	Method Blank	Soluble	Solid	300.0	100746
LCS 880-100746/2-A	Lab Control Sample	Soluble	Solid	300.0	100746
LCSD 880-100746/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100746
880-53401-A-6-F MS	Matrix Spike	Soluble	Solid	300.0	100746

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

HPLC/IC (Continued)

Analysis Batch: 100761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53401-A-6-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	100746

Analysis Batch: 100762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Soluble	Solid	300.0	100747
890-7585-2	SS02	Soluble	Solid	300.0	100747
890-7585-3	SS03	Soluble	Solid	300.0	100747
890-7585-4	SS04	Soluble	Solid	300.0	100747
890-7585-5	SS05	Soluble	Solid	300.0	100747
890-7585-6	SS06	Soluble	Solid	300.0	100747
890-7585-7	SS07	Soluble	Solid	300.0	100747
890-7585-8	SS08	Soluble	Solid	300.0	100747
890-7585-9	SS09	Soluble	Solid	300.0	100747
890-7585-10	SS10	Soluble	Solid	300.0	100747
890-7585-11	SS11	Soluble	Solid	300.0	100747
890-7585-12	SS12	Soluble	Solid	300.0	100747
890-7585-13	SS13	Soluble	Solid	300.0	100747
890-7585-14	SS14	Soluble	Solid	300.0	100747
890-7585-15	SS15	Soluble	Solid	300.0	100747
890-7585-16	SS16	Soluble	Solid	300.0	100747
890-7585-17	SS17	Soluble	Solid	300.0	100747
890-7585-18	SS18	Soluble	Solid	300.0	100747
MB 880-100747/1-A	Method Blank	Soluble	Solid	300.0	100747
LCS 880-100747/2-A	Lab Control Sample	Soluble	Solid	300.0	100747
LCSD 880-100747/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100747
890-7585-9 MS	SS09	Soluble	Solid	300.0	100747
890-7585-9 MSD	SS09	Soluble	Solid	300.0	100747

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS01
Date Collected: 01/20/25 09:35
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 11:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 11:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 12:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 12:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 22:26	CH	EET MID

Client Sample ID: SS02
Date Collected: 01/20/25 09:41
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 11:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 13:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 13:28	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 22:32	CH	EET MID

Client Sample ID: SS03
Date Collected: 01/20/25 09:47
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 12:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 13:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 13:43	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 22:37	CH	EET MID

Client Sample ID: SS04
Date Collected: 01/20/25 12:47
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 12:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 12:39	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS04
Date Collected: 01/20/25 12:47
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100888	01/21/25 13:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 13:57	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 22:54	CH	EET MID

Client Sample ID: SS05
Date Collected: 01/20/25 12:40
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 12:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 12:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 14:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 14:12	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:00	CH	EET MID

Client Sample ID: SS06
Date Collected: 01/20/25 12:25
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 13:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 14:26	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100762	01/21/25 23:06	CH	EET MID

Client Sample ID: SS07
Date Collected: 01/20/25 12:27
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 13:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 14:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 14:39	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS07
Date Collected: 01/20/25 12:27
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:11	CH	EET MID

Client Sample ID: SS08
Date Collected: 01/20/25 12:35
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 14:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 14:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 14:54	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:17	CH	EET MID

Client Sample ID: SS09
Date Collected: 01/20/25 12:37
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 14:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 15:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 15:08	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:23	CH	EET MID

Client Sample ID: SS10
Date Collected: 01/20/25 12:29
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 14:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 14:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 15:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 15:22	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:40	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS11

Lab Sample ID: 890-7585-11

Date Collected: 01/20/25 12:22
Matrix: Solid
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 16:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 15:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 15:51	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:45	CH	EET MID

Client Sample ID: SS12

Lab Sample ID: 890-7585-12

Date Collected: 01/20/25 12:42
Matrix: Solid
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 16:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 16:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 16:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 16:05	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:02	CH	EET MID

Client Sample ID: SS13

Lab Sample ID: 890-7585-13

Date Collected: 01/20/25 09:49
Matrix: Solid
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 16:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 16:19	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:08	CH	EET MID

Client Sample ID: SS14

Lab Sample ID: 890-7585-14

Date Collected: 01/20/25 09:43
Matrix: Solid
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 17:10	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS14

Date Collected: 01/20/25 09:43
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100888	01/21/25 16:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 16:33	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:14	CH	EET MID

Client Sample ID: SS15

Date Collected: 01/20/25 09:37
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 17:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 16:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 16:47	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:19	CH	EET MID

Client Sample ID: SS16

Date Collected: 01/20/25 09:32
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 17:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:02	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:25	CH	EET MID

Client Sample ID: SS17

Date Collected: 01/20/25 09:39
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 18:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:15	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS17

Date Collected: 01/20/25 09:39
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:31	CH	EET MID

Client Sample ID: SS18

Date Collected: 01/20/25 09:45
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 18:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:36	CH	EET MID

Client Sample ID: SS19

Date Collected: 01/20/25 12:44
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 18:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100746	01/21/25 09:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100761	01/21/25 18:45	CH	EET MID

Client Sample ID: SS20

Date Collected: 01/20/25 12:33
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 19:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 19:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:58	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100746	01/21/25 09:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100761	01/21/25 18:52	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7585-1	SS01	Solid	01/20/25 09:35	01/20/25 15:54	0.5
890-7585-2	SS02	Solid	01/20/25 09:41	01/20/25 15:54	0.5
890-7585-3	SS03	Solid	01/20/25 09:47	01/20/25 15:54	0.5
890-7585-4	SS04	Solid	01/20/25 12:47	01/20/25 15:54	0.5
890-7585-5	SS05	Solid	01/20/25 12:40	01/20/25 15:54	0.5
890-7585-6	SS06	Solid	01/20/25 12:25	01/20/25 15:54	0.5
890-7585-7	SS07	Solid	01/20/25 12:27	01/20/25 15:54	0.5
890-7585-8	SS08	Solid	01/20/25 12:35	01/20/25 15:54	0.5
890-7585-9	SS09	Solid	01/20/25 12:37	01/20/25 15:54	0.5
890-7585-10	SS10	Solid	01/20/25 12:29	01/20/25 15:54	0.5
890-7585-11	SS11	Solid	01/20/25 12:22	01/20/25 15:54	0.5
890-7585-12	SS12	Solid	01/20/25 12:42	01/20/25 15:54	0.5
890-7585-13	SS13	Solid	01/20/25 09:49	01/20/25 15:54	0.5
890-7585-14	SS14	Solid	01/20/25 09:43	01/20/25 15:54	0.5
890-7585-15	SS15	Solid	01/20/25 09:37	01/20/25 15:54	0.5
890-7585-16	SS16	Solid	01/20/25 09:32	01/20/25 15:54	0.5
890-7585-17	SS17	Solid	01/20/25 09:39	01/20/25 15:54	0.5
890-7585-18	SS18	Solid	01/20/25 09:45	01/20/25 15:54	0.5
890-7585-19	SS19	Solid	01/20/25 12:44	01/20/25 15:54	0.5
890-7585-20	SS20	Solid	01/20/25 12:33	01/20/25 15:54	0.5

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902
Midland, TX (432) 704-5440, San Antonio, TX (210) 5
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 7
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-7585 Chain of Custody

): 03D3836001

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1/22/2025

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

Work Order Comments

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

Project Name:	FlatHand FNR FracLine	**Turn Around**	☑ Routine ☐ Rush
Project Number:	03D36001	Due Date:	
Project Location:	32.304886, -103.859709	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Bowan Simmons		
PO #:	03D36001		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.7
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.6
Total Containers:		Corrected Temperature:	0.4

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS01	Soil	1/20/25	9:35	0.5'	G	1		✓	✓	✓	
SS02	Soil		9:41					✓	✓	✓	
SS03	Soil		9:47					✓	✓	✓	
SS04	Soil		12:47					✓	✓	✓	
SS05	Soil		12:40					✓	✓	✓	
SS06	Soil		12:25					✓	✓	✓	
SS07	Soil		12:27					✓	✓	✓	
SS08	Soil		12:35					✓	✓	✓	
SS09	Soil		12:37					✓	✓	✓	
SS10	Soil		12:29					✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/20 15:54	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: 03D3836001

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

Work Order Comments

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

Project Name:	Flathead FNR FracLine	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	32.30486, -103.89709	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Bowan Simmons		
PO #:	03D3836001		

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS11	Soil	1/20/25	12:22	0.5'	G	1		✓	✓	✓	
SS12			12:42					✓	✓	✓	
SS13			9:49					✓	✓	✓	
SS14			9:43					✓	✓	✓	
SS15			9:37					✓	✓	✓	
SS16			9:32					✓	✓	✓	
SS17			9:39					✓	✓	✓	
SS18			9:45					✓	✓	✓	
SS19			12:44					✓	✓	✓	
SS20			12:33					✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/20 15:54	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7585-1
SDG Number: 03D36001

Login Number: 7585
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7585-1
SDG Number: 03D36001

Login Number: 7585
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 01/20/25 09:14 PM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 2/3/2025 1:34:07 PM

JOB DESCRIPTION

Flatline Frac
Eddy Co, NM

JOB NUMBER

880-53820-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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Eurofins Midland

Job Notes

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

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

Authorization

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2/3/2025 1:34:07 PM

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

Client: Ensolum
Project/Site: Flatline Frac

Laboratory Job ID: 880-53820-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Ensolum Job ID: 880-53820-1
Project/Site: Flatline Frac SDG: Eddy Co, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 880-53820-1
Project: Flatline Frac

Job ID: 880-53820-1 Eurofins Midland

Job Narrative
880-53820-1

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

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

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

Receipt
The samples were received on 1/30/2025 8:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS-01 (880-53820-1), SS-02 (880-53820-2), SS-03 (880-53820-3), SS-04 (880-53820-4), SS-05 (880-53820-5), SS-06 (880-53820-6), SS-06 (880-53820-7), SS-07 (880-53820-8) and SS-08 (880-53820-9).

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101560 and 880-101561 and analytical batch 880-101726 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS-02 (880-53820-2), SS-03 (880-53820-3), SS-04 (880-53820-4), SS-05 (880-53820-5), SS-06 (880-53820-6), SS-06 (880-53820-7), SS-07 (880-53820-8), (890-7607-A-21-A), (890-7607-A-21-B MS), (890-7607-A-21-C MSD), (880-53820-A-4-B MS) and (880-53820-A-4-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SS-01 (880-53820-1). Percent recoveries are based on the amount spiked.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101615 and analytical batch 880-101676 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-01

Lab Sample ID: 880-53820-1
Date Collected: 01/29/25 10:50
Matrix: Solid
Date Received: 01/30/25 08:10

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/30/25 08:51	01/30/25 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/30/25 08:51*	*01/30/25 14:49*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/30/25 08:51*	*01/30/25 14:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/30/25 14:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/31/25 23:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 23:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*162*	*S1+*	*70 - 130*	*01/30/25 09:00*	*01/31/25 23:41*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*01/30/25 09:00*	*01/31/25 23:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**	**F1**	9.98		mg/Kg			02/01/25 20:00	1

Client Sample ID: SS-02

Lab Sample ID: 880-53820-2
Date Collected: 01/29/25 11:48
Matrix: Solid
Date Received: 01/30/25 08:10

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		01/30/25 08:51	01/30/25 15:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 15:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 15:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/30/25 08:51	01/30/25 15:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 15:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/30/25 08:51	01/30/25 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/30/25 08:51*	*01/30/25 15:10*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/30/25 08:51*	*01/30/25 15:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-02

Date Collected: 01/29/25 11:48
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/30/25 15:10	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/31/25 23:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/30/25 09:00	01/31/25 23:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/30/25 09:00	01/31/25 23:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/30/25 09:00	01/31/25 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*01/30/25 09:00*	*01/31/25 23:57*	*1*
o-Terphenyl	*113*		*70 - 130*	*01/30/25 09:00*	*01/31/25 23:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.6**		9.94		mg/Kg			02/01/25 20:18	1

Client Sample ID: SS-03

Date Collected: 01/29/25 11:45
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/30/25 08:51*	*01/30/25 16:34*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/30/25 08:51*	*01/30/25 16:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/30/25 16:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/01/25 00:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/30/25 09:00	02/01/25 00:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/30/25 09:00	02/01/25 00:13	1

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-03

Date Collected: 01/29/25 11:45
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-3
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/30/25 09:00	02/01/25 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*01/30/25 09:00*	*02/01/25 00:13*	*1*
o-Terphenyl	*108*		*70 - 130*	*01/30/25 09:00*	*02/01/25 00:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**827**		10.0		mg/Kg			02/01/25 20:24	1

Client Sample ID: SS-04

Date Collected: 01/29/25 11:52
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-4
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/30/25 08:51*	*01/30/25 16:54*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/30/25 08:51*	*01/30/25 16:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/30/25 16:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/25 02:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/30/25 09:07	02/01/25 02:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/25 09:07	02/01/25 02:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/25 09:07	02/01/25 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*155*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 02:18*	*1*
o-Terphenyl	*125*		*70 - 130*	*01/30/25 09:07*	*02/01/25 02:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**592**		10.1		mg/Kg			02/01/25 20:30	1

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-05

Date Collected: 01/29/25 10:38
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-5
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 17:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 17:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 17:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/30/25 08:51	01/30/25 17:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 17:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/30/25 08:51	01/30/25 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:15*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/30/25 17:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/01/25 03:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 03:06*	*1*
o-Terphenyl	*123*		*70 - 130*	*01/30/25 09:07*	*02/01/25 03:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**174**		9.96		mg/Kg			02/01/25 20:36	1

Client Sample ID: SS-06

Date Collected: 01/29/25 11:30
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-6
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/30/25 08:51	01/30/25 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:35*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:35*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-06

Date Collected: 01/29/25 11:30
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/30/25 17:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/01/25 03:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 03:21*	*1*
o-Terphenyl	*122*		*70 - 130*	*01/30/25 09:07*	*02/01/25 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		9.94		mg/Kg			02/01/25 20:53	1

Client Sample ID: SS-06

Date Collected: 01/29/25 11:33
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/30/25 08:51	01/30/25 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:56*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/30/25 17:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/01/25 03:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:37	1

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-06

Date Collected: 01/29/25 11:33
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-7
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 03:37*	*1*
o-Terphenyl	*111*		*70 - 130*	*01/30/25 09:07*	*02/01/25 03:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**374**		9.92		mg/Kg			02/01/25 20:59	1

Client Sample ID: SS-07

Date Collected: 01/29/25 10:35
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/30/25 08:51	01/30/25 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/30/25 08:51*	*01/30/25 18:16*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*01/30/25 08:51*	*01/30/25 18:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/30/25 18:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/01/25 03:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 03:53*	*1*
o-Terphenyl	*116*		*70 - 130*	*01/30/25 09:07*	*02/01/25 03:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.3**		10.0		mg/Kg			02/01/25 21:05	1

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-08

Date Collected: 01/29/25 10:30
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/30/25 08:51	01/30/25 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/30/25 08:51*	*01/30/25 18:37*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/30/25 08:51*	*01/30/25 18:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/30/25 18:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/01/25 04:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/30/25 09:07	02/01/25 04:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/30/25 09:07	02/01/25 04:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/30/25 09:07	02/01/25 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*01/30/25 09:07*	*02/01/25 04:08*	*1*
o-Terphenyl	*109*		*70 - 130*	*01/30/25 09:07*	*02/01/25 04:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		9.94		mg/Kg			02/01/25 21:11	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-53820-1	SS-01	95	93
880-53820-2	SS-02	96	92
880-53820-3	SS-03	95	91
880-53820-4	SS-04	95	93
880-53820-5	SS-05	96	91
880-53820-6	SS-06	96	93
880-53820-7	SS-06	92	92
880-53820-8	SS-07	96	79
880-53820-9	SS-08	97	90
LCS 880-101557/1-A	Lab Control Sample	93	93
LCSD 880-101557/2-A	Lab Control Sample Dup	98	103
MB 880-101557/5-A	Method Blank	94	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-53820-1	SS-01	162 S1+	132 S1+
880-53820-2	SS-02	135 S1+	113
880-53820-3	SS-03	131 S1+	108
880-53820-4	SS-04	155 S1+	125
880-53820-4 MS	SS-04	138 S1+	127
880-53820-4 MSD	SS-04	136 S1+	123
880-53820-5	SS-05	151 S1+	123
880-53820-6	SS-06	151 S1+	122
880-53820-7	SS-06	135 S1+	111
880-53820-8	SS-07	140 S1+	116
880-53820-9	SS-08	130	109
LCS 880-101560/2-A	Lab Control Sample	125	117
LCS 880-101561/2-A	Lab Control Sample	130	122
LCSD 880-101560/3-A	Lab Control Sample Dup	130	119
LCSD 880-101561/3-A	Lab Control Sample Dup	127	118
MB 880-101560/1-A	Method Blank	144 S1+	125
MB 880-101561/1-A	Method Blank	156 S1+	128

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101557/5-A
Matrix: Solid
Analysis Batch: 101550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101557

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*01/30/25 08:51*	*01/30/25 11:43*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/30/25 08:51*	*01/30/25 11:43*	*1*

Lab Sample ID: LCS 880-101557/1-A
Matrix: Solid
Analysis Batch: 101550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101557

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09098		mg/Kg		91	70 - 130		
Toluene			0.100	0.09625		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09378		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1811		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.08837		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-101557/2-A
Matrix: Solid
Analysis Batch: 101550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101557

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09870		mg/Kg		99	70 - 130	8	35
Toluene			0.100	0.1018		mg/Kg		102	70 - 130	6	35
Ethylbenzene			0.100	0.09952		mg/Kg		100	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1941		mg/Kg		97	70 - 130	7	35
o-Xylene			0.100	0.09392		mg/Kg		94	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-101560/1-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101560

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 17:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 17:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 17:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*01/30/25 09:00*	*01/31/25 17:35*	*1*
o-Terphenyl	*125*		*70 - 130*	*01/30/25 09:00*	*01/31/25 17:35*	*1*

Lab Sample ID: LCS 880-101560/2-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101560

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1055		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1089		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*125*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: LCSD 880-101560/3-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101560

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1060		mg/Kg		106	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1109		mg/Kg		111	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*130*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: MB 880-101561/1-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101561

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/30/25 09:06	02/01/25 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/25 09:06	02/01/25 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/25 09:06	02/01/25 01:31	1

QC Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

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

Lab Sample ID: MB 880-101561/1-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101561

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130	01/30/25 09:06	02/01/25 01:31	1
o-Terphenyl	128		70 - 130	01/30/25 09:06	02/01/25 01:31	1

Lab Sample ID: LCS 880-101561/2-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101561

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1116		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1126		mg/Kg		113	70 - 130		

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

Lab Sample ID: LCSD 880-101561/3-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101561

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1107		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1108		mg/Kg		111	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 880-53820-4 MS
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: SS-04
Prep Type: Total/NA
Prep Batch: 101561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1216		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1159		mg/Kg		116	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	127		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

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

Lab Sample ID: 880-53820-4 MSD — **Client Sample ID: SS-04**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101726 — **Prep Batch: 101561**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1222		mg/Kg		122	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1121		mg/Kg		112	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*136*	*S1+*	*70 - 130*
o-Terphenyl	*123*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101615/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/01/25 19:43	1

Lab Sample ID: LCS 880-101615/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.6		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-101615/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	275.1		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-53820-1 MS — **Client Sample ID: SS-01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	13.8	F1	250	328.1	F1	mg/Kg		126	90 - 110		

Lab Sample ID: 880-53820-1 MSD — **Client Sample ID: SS-01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13.8	F1	250	342.8	F1	mg/Kg		132	90 - 110	4	20

QC Association Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 101550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	8021B	101557
880-53820-2	SS-02	Total/NA	Solid	8021B	101557
880-53820-3	SS-03	Total/NA	Solid	8021B	101557
880-53820-4	SS-04	Total/NA	Solid	8021B	101557
880-53820-5	SS-05	Total/NA	Solid	8021B	101557
880-53820-6	SS-06	Total/NA	Solid	8021B	101557
880-53820-7	SS-06	Total/NA	Solid	8021B	101557
880-53820-8	SS-07	Total/NA	Solid	8021B	101557
880-53820-9	SS-08	Total/NA	Solid	8021B	101557
MB 880-101557/5-A	Method Blank	Total/NA	Solid	8021B	101557
LCS 880-101557/1-A	Lab Control Sample	Total/NA	Solid	8021B	101557
LCSD 880-101557/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101557

Prep Batch: 101557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	5035	
880-53820-2	SS-02	Total/NA	Solid	5035	
880-53820-3	SS-03	Total/NA	Solid	5035	
880-53820-4	SS-04	Total/NA	Solid	5035	
880-53820-5	SS-05	Total/NA	Solid	5035	
880-53820-6	SS-06	Total/NA	Solid	5035	
880-53820-7	SS-06	Total/NA	Solid	5035	
880-53820-8	SS-07	Total/NA	Solid	5035	
880-53820-9	SS-08	Total/NA	Solid	5035	
MB 880-101557/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-101557/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-101557/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 101739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	Total BTEX	
880-53820-2	SS-02	Total/NA	Solid	Total BTEX	
880-53820-3	SS-03	Total/NA	Solid	Total BTEX	
880-53820-4	SS-04	Total/NA	Solid	Total BTEX	
880-53820-5	SS-05	Total/NA	Solid	Total BTEX	
880-53820-6	SS-06	Total/NA	Solid	Total BTEX	
880-53820-7	SS-06	Total/NA	Solid	Total BTEX	
880-53820-8	SS-07	Total/NA	Solid	Total BTEX	
880-53820-9	SS-08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	8015NM Prep	
880-53820-2	SS-02	Total/NA	Solid	8015NM Prep	
880-53820-3	SS-03	Total/NA	Solid	8015NM Prep	
MB 880-101560/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101560/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101560/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

GC Semi VOA

Prep Batch: 101561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-4	SS-04	Total/NA	Solid	8015NM Prep	
880-53820-5	SS-05	Total/NA	Solid	8015NM Prep	
880-53820-6	SS-06	Total/NA	Solid	8015NM Prep	
880-53820-7	SS-06	Total/NA	Solid	8015NM Prep	
880-53820-8	SS-07	Total/NA	Solid	8015NM Prep	
880-53820-9	SS-08	Total/NA	Solid	8015NM Prep	
MB 880-101561/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101561/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101561/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53820-4 MS	SS-04	Total/NA	Solid	8015NM Prep	
880-53820-4 MSD	SS-04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	8015B NM	101560
880-53820-2	SS-02	Total/NA	Solid	8015B NM	101560
880-53820-3	SS-03	Total/NA	Solid	8015B NM	101560
880-53820-4	SS-04	Total/NA	Solid	8015B NM	101561
880-53820-5	SS-05	Total/NA	Solid	8015B NM	101561
880-53820-6	SS-06	Total/NA	Solid	8015B NM	101561
880-53820-7	SS-06	Total/NA	Solid	8015B NM	101561
880-53820-8	SS-07	Total/NA	Solid	8015B NM	101561
880-53820-9	SS-08	Total/NA	Solid	8015B NM	101561
MB 880-101560/1-A	Method Blank	Total/NA	Solid	8015B NM	101560
MB 880-101561/1-A	Method Blank	Total/NA	Solid	8015B NM	101561
LCS 880-101560/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101560
LCS 880-101561/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101561
LCSD 880-101560/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101560
LCSD 880-101561/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101561
880-53820-4 MS	SS-04	Total/NA	Solid	8015B NM	101561
880-53820-4 MSD	SS-04	Total/NA	Solid	8015B NM	101561

Analysis Batch: 101879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	8015 NM	
880-53820-2	SS-02	Total/NA	Solid	8015 NM	
880-53820-3	SS-03	Total/NA	Solid	8015 NM	
880-53820-4	SS-04	Total/NA	Solid	8015 NM	
880-53820-5	SS-05	Total/NA	Solid	8015 NM	
880-53820-6	SS-06	Total/NA	Solid	8015 NM	
880-53820-7	SS-06	Total/NA	Solid	8015 NM	
880-53820-8	SS-07	Total/NA	Solid	8015 NM	
880-53820-9	SS-08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 101615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Soluble	Solid	DI Leach	
880-53820-2	SS-02	Soluble	Solid	DI Leach	
880-53820-3	SS-03	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 101615 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-4	SS-04	Soluble	Solid	DI Leach	
880-53820-5	SS-05	Soluble	Solid	DI Leach	
880-53820-6	SS-06	Soluble	Solid	DI Leach	
880-53820-7	SS-06	Soluble	Solid	DI Leach	
880-53820-8	SS-07	Soluble	Solid	DI Leach	
880-53820-9	SS-08	Soluble	Solid	DI Leach	
MB 880-101615/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101615/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101615/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53820-1 MS	SS-01	Soluble	Solid	DI Leach	
880-53820-1 MSD	SS-01	Soluble	Solid	DI Leach	

Analysis Batch: 101676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Soluble	Solid	300.0	101615
880-53820-2	SS-02	Soluble	Solid	300.0	101615
880-53820-3	SS-03	Soluble	Solid	300.0	101615
880-53820-4	SS-04	Soluble	Solid	300.0	101615
880-53820-5	SS-05	Soluble	Solid	300.0	101615
880-53820-6	SS-06	Soluble	Solid	300.0	101615
880-53820-7	SS-06	Soluble	Solid	300.0	101615
880-53820-8	SS-07	Soluble	Solid	300.0	101615
880-53820-9	SS-08	Soluble	Solid	300.0	101615
MB 880-101615/1-A	Method Blank	Soluble	Solid	300.0	101615
LCS 880-101615/2-A	Lab Control Sample	Soluble	Solid	300.0	101615
LCSD 880-101615/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101615
880-53820-1 MS	SS-01	Soluble	Solid	300.0	101615
880-53820-1 MSD	SS-01	Soluble	Solid	300.0	101615

Lab Chronicle

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-01

Lab Sample ID: 880-53820-1
Matrix: Solid
Date Collected: 01/29/25 10:50
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 14:49
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 14:49
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	01/31/25 23:41
Total/NA	Prep	8015NM Prep			101560	EL	EET MID	01/30/25 09:00
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	01/31/25 23:41
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:00

Client Sample ID: SS-02

Lab Sample ID: 880-53820-2
Matrix: Solid
Date Collected: 01/29/25 11:48
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 15:10
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 15:10
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	01/31/25 23:57
Total/NA	Prep	8015NM Prep			101560	EL	EET MID	01/30/25 09:00
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	01/31/25 23:57
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:18

Client Sample ID: SS-03

Lab Sample ID: 880-53820-3
Matrix: Solid
Date Collected: 01/29/25 11:45
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 16:34
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 16:34
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 00:13
Total/NA	Prep	8015NM Prep			101560	EL	EET MID	01/30/25 09:00
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 00:13
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:24

Client Sample ID: SS-04

Lab Sample ID: 880-53820-4
Matrix: Solid
Date Collected: 01/29/25 11:52
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 16:54
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 16:54

Lab Chronicle

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-04
Date Collected: 01/29/25 11:52
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 02:18
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 02:18
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:30

Client Sample ID: SS-05
Date Collected: 01/29/25 10:38
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 17:15
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 17:15
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 03:06
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 03:06
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:36

Client Sample ID: SS-06
Date Collected: 01/29/25 11:30
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 17:35
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 17:35
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 03:21
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 03:21
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:53

Client Sample ID: SS-06
Date Collected: 01/29/25 11:33
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 17:56
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 17:56
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 03:37
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 03:37

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-06

Lab Sample ID: 880-53820-7
Matrix: Solid
Date Collected: 01/29/25 11:33
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:59

Client Sample ID: SS-07

Lab Sample ID: 880-53820-8
Matrix: Solid
Date Collected: 01/29/25 10:35
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 18:16
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 18:16
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 03:53
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 03:53
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 21:05

Client Sample ID: SS-08

Lab Sample ID: 880-53820-9
Matrix: Solid
Date Collected: 01/29/25 10:30
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 18:37
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 18:37
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 04:08
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 04:08
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 21:11

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53820-1	SS-01	Solid	01/29/25 10:50	01/30/25 08:10
880-53820-2	SS-02	Solid	01/29/25 11:48	01/30/25 08:10
880-53820-3	SS-03	Solid	01/29/25 11:45	01/30/25 08:10
880-53820-4	SS-04	Solid	01/29/25 11:52	01/30/25 08:10
880-53820-5	SS-05	Solid	01/29/25 10:38	01/30/25 08:10
880-53820-6	SS-06	Solid	01/29/25 11:30	01/30/25 08:10
880-53820-7	SS-06	Solid	01/29/25 11:33	01/30/25 08:10
880-53820-8	SS-07	Solid	01/29/25 10:35	01/30/25 08:10
880-53820-9	SS-08	Solid	01/29/25 10:30	01/30/25 08:10

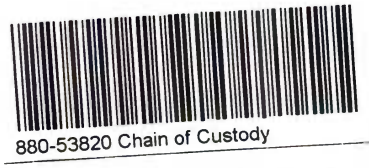
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Chain of Custody

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

Wor



www.xenco.com Page 1 of 1

Project Manager:	Maddie Green	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Marienfeld #400	Address:	
City, State ZIP:	MIDLAND TX 79701	City, State ZIP:	
Phone:	432 230 3344	Email:	hgreen@ensolum.com

Work Order Comments

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

Project Name:	Flatline Frac	Turn Around	☐ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy Co NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Shane Dilley		
PO #:	03D3836001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.1
Total Containers:		Corrected Temperature:	2.0

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: TPH 8015	BTEX 8021B	Chlorides 300	Sample Comments
SS-01	S	1-29-25	1056	1	C	1	X	X	X	
SS-02	S	1-29-25	1148	1	C	1	X	X	X	
SS-03	S	1-29-25	1145	1	C	1	X	X	X	
SS-04	S	1-29-25	1152	1	C	1	X	X	X	
SS-05	S	1-29-25	1038	1	C	1	X	X	X	
SS-06	S	1-29-25	1130	1	C	1	X	X	X	
SS-06	S	1-29-25	1133	2	C	1	X	X	X	
SS-07	S	1-29-25	1035	1	C	1	X	X	X	
SS-08	S	1-29-25	1030	1	C	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/30/25 810	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-53820-1
SDG Number: Eddy Co, NM

Login Number: 53820
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

FLATLAND FNR FRAC LAND
03D3836001

JOB NUMBER

890-7941-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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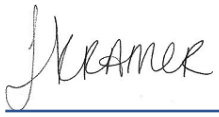
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Laboratory Job ID: 890-7941-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 890-7941-1
Project: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1 Eurofins Carlsbad

Job Narrative
890-7941-1

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

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

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

Receipt
The samples were received on 4/15/2025 4:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 28 (890-7941-1), CS 29 (890-7941-2), CS 49 (890-7941-3) and CS 58 (890-7941-4).

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-107817/2-A), (880-56944-A-7-B), (880-56944-A-7-C MS) and (880-56944-A-7-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 28 (890-7941-1), CS 29 (890-7941-2) and (LCSD 880-107817/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-107818 and analytical batch 880-107856 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-107818/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 49 (890-7941-3), CS 58 (890-7941-4), (880-56945-A-9-C), (880-56945-A-9-D MS) and (880-56945-A-9-E 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.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107878 and analytical batch 880-107887 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 28

Lab Sample ID: 890-7941-1
Matrix: Solid
Date Collected: 04/14/25 10:05
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
o-Xylene	**0.0383**		0.00201		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
Xylenes, Total	**0.0383**		0.00402		mg/Kg		04/16/25 09:42	04/16/25 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*04/16/25 09:42*	*04/16/25 23:52*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/16/25 09:42*	*04/16/25 23:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0383**		0.00402		mg/Kg			04/16/25 23:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			04/17/25 00:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		04/16/25 08:26	04/17/25 00:14	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		04/16/25 08:26	04/17/25 00:14	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		04/16/25 08:26	04/17/25 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 00:14*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**455**		9.92		mg/Kg			04/16/25 22:20	1

Client Sample ID: CS 29

Lab Sample ID: 890-7941-2
Matrix: Solid
Date Collected: 04/14/25 10:29
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 09:42	04/17/25 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:13*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 29

Lab Sample ID: 890-7941-2
Matrix: Solid
Date Collected: 04/14/25 10:29
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/17/25 00:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			04/17/25 00:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		04/16/25 08:26	04/17/25 00:30	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		04/16/25 08:26	04/17/25 00:30	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		04/16/25 08:26	04/17/25 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 00:30*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 00:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3230**		50.2	mg/Kg			04/16/25 22:27	5

Client Sample ID: CS 49

Lab Sample ID: 890-7941-3
Matrix: Solid
Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/16/25 09:42	04/17/25 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:33*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:33*	*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			04/17/25 00:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			04/17/25 00:14	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 49

Lab Sample ID: 890-7941-3
Matrix: Solid
Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 00:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 00:14	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:14*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1950**		50.0		mg/Kg			04/16/25 22:35	5

Client Sample ID: CS 58

Lab Sample ID: 890-7941-4
Matrix: Solid
Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/25 09:42	04/17/25 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:54*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/25 00:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/17/25 00:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:30*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:30*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 58
Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

Lab Sample ID: 890-7941-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9640		99.8		mg/Kg			04/16/25 22:42	10

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7934-A-1-B MS	Matrix Spike	102	93
890-7934-A-1-C MSD	Matrix Spike Duplicate	102	98
890-7941-1	CS 28	79	102
890-7941-2	CS 29	84	87
890-7941-3	CS 49	83	93
890-7941-4	CS 58	84	93
LCS 880-107721/1-A	Lab Control Sample	103	102
LCSD 880-107721/2-A	Lab Control Sample Dup	102	111
MB 880-107721/5-A	Method Blank	84	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-56944-A-7-C MS	Matrix Spike	133 S1+	124
880-56944-A-7-D MSD	Matrix Spike Duplicate	133 S1+	123
880-56945-A-9-D MS	Matrix Spike	145 S1+	139 S1+
880-56945-A-9-E MSD	Matrix Spike Duplicate	153 S1+	142 S1+
890-7941-1	CS 28	136 S1+	137 S1+
890-7941-2	CS 29	133 S1+	133 S1+
890-7941-3	CS 49	132 S1+	135 S1+
890-7941-4	CS 58	134 S1+	137 S1+
LCS 880-107817/2-A	Lab Control Sample	140 S1+	130
LCS 880-107818/2-A	Lab Control Sample	131 S1+	124
LCSD 880-107817/3-A	Lab Control Sample Dup	140 S1+	133 S1+
LCSD 880-107818/3-A	Lab Control Sample Dup	116	110
MB 880-107817/1-A	Method Blank	122	124
MB 880-107818/1-A	Method Blank	100	102

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107721/5-A
Matrix: Solid
Analysis Batch: 107890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107721

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/15/25 10:30	04/16/25 17:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*04/15/25 10:30*	*04/16/25 17:00*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/15/25 10:30*	*04/16/25 17:00*	*1*

Lab Sample ID: LCS 880-107721/1-A
Matrix: Solid
Analysis Batch: 107890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107721

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09488		mg/Kg		95	70 - 130		
Toluene			0.100	0.08576		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.1031		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.1931		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09824		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-107721/2-A
Matrix: Solid
Analysis Batch: 107890

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107721

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09792		mg/Kg		98	70 - 130	3	35
Toluene			0.100	0.08533		mg/Kg		85	70 - 130	1	35
Ethylbenzene			0.100	0.1045		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1924		mg/Kg		96	70 - 130	0	35
o-Xylene			0.100	0.09694		mg/Kg		97	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 890-7934-A-1-B MS
Matrix: Solid
Analysis Batch: 107890

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 107721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.09661		mg/Kg		97	70 - 130		
Toluene	<0.00202	U	0.100	0.08928		mg/Kg		89	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

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

Lab Sample ID: 890-7934-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107890 — **Prep Batch: 107721**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.1085		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1978		mg/Kg		99	70 - 130
o-Xylene	<0.00202	U	0.100	0.1010		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-7934-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107890 — **Prep Batch: 107721**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.09748		mg/Kg		97	70 - 130	1	35
Toluene	<0.00202	U	0.100	0.08350		mg/Kg		84	70 - 130	7	35
Ethylbenzene	<0.00202	U	0.100	0.1082		mg/Kg		108	70 - 130	0	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1950		mg/Kg		98	70 - 130	1	35
o-Xylene	<0.00202	U	0.100	0.09979		mg/Kg		100	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-107817/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107854 — **Prep Batch: 107817**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/16/25 08:26	04/16/25 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/16/25 08:26	04/16/25 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/16/25 08:26	04/16/25 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*04/16/25 08:26*	*04/16/25 20:01*	*1*
o-Terphenyl	*124*		*70 - 130*	*04/16/25 08:26*	*04/16/25 20:01*	*1*

Lab Sample ID: LCS 880-107817/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107854 — **Prep Batch: 107817**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1119		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1110		mg/Kg		111	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

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

Lab Sample ID: LCS 880-107817/2-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107817

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-107817/3-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107817

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1087		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1114		mg/Kg		111	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: 880-56944-A-7-C MS
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 107817

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1033		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	921.4		mg/Kg		93	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: 880-56944-A-7-D MSD
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 107817

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1022		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	995	895.7		mg/Kg		90	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	123		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

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

Lab Sample ID: MB 880-107818/1-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107818

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*04/16/25 08:30*	*04/16/25 20:01*	*1*
o-Terphenyl	*102*		*70 - 130*	*04/16/25 08:30*	*04/16/25 20:01*	*1*

Lab Sample ID: LCS 880-107818/2-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107818

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	944.8		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*124*		*70 - 130*

Lab Sample ID: LCSD 880-107818/3-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107818

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	867.6		mg/Kg		87	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 880-56945-A-9-D MS
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 107818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1000	1041		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U	1000	1042		mg/Kg		102	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

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

Lab Sample ID: 880-56945-A-9-D MS
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 107818

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	139	S1+	70 - 130

Lab Sample ID: 880-56945-A-9-E MSD
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 107818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1000	1065		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.3	U	1000	1081		mg/Kg		106	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	142	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107878/1-A
Matrix: Solid
Analysis Batch: 107887

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/16/25 19:11	1

Lab Sample ID: LCS 880-107878/2-A
Matrix: Solid
Analysis Batch: 107887

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.6		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-107878/3-A
Matrix: Solid
Analysis Batch: 107887

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.4		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-56901-D-1-B MS
Matrix: Solid
Analysis Batch: 107887

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	418	F1	249	622.7	F1	mg/Kg		82	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-56901-D-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	418	F1	249	621.7	F1	mg/Kg		82	90 - 110	0	20

Lab Sample ID: 880-56947-A-4-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2030	F1	1260	3567	F1	mg/Kg		123	90 - 110

Lab Sample ID: 880-56947-A-4-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2030	F1	1260	3574	F1	mg/Kg		123	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

GC VOA

Prep Batch: 107721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	5035	
890-7941-2	CS 29	Total/NA	Solid	5035	
890-7941-3	CS 49	Total/NA	Solid	5035	
890-7941-4	CS 58	Total/NA	Solid	5035	
MB 880-107721/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107721/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107721/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7934-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7934-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 107890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	8021B	107721
890-7941-2	CS 29	Total/NA	Solid	8021B	107721
890-7941-3	CS 49	Total/NA	Solid	8021B	107721
890-7941-4	CS 58	Total/NA	Solid	8021B	107721
MB 880-107721/5-A	Method Blank	Total/NA	Solid	8021B	107721
LCS 880-107721/1-A	Lab Control Sample	Total/NA	Solid	8021B	107721
LCSD 880-107721/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107721
890-7934-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	107721
890-7934-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	107721

Analysis Batch: 107999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	Total BTEX	
890-7941-2	CS 29	Total/NA	Solid	Total BTEX	
890-7941-3	CS 49	Total/NA	Solid	Total BTEX	
890-7941-4	CS 58	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	8015NM Prep	
890-7941-2	CS 29	Total/NA	Solid	8015NM Prep	
MB 880-107817/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107817/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-56944-A-7-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-56944-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 107818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-3	CS 49	Total/NA	Solid	8015NM Prep	
890-7941-4	CS 58	Total/NA	Solid	8015NM Prep	
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-56945-A-9-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-56945-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

GC Semi VOA

Analysis Batch: 107854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	8015B NM	107817
890-7941-2	CS 29	Total/NA	Solid	8015B NM	107817
MB 880-107817/1-A	Method Blank	Total/NA	Solid	8015B NM	107817
LCS 880-107817/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107817
LCSD 880-107817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107817
880-56944-A-7-C MS	Matrix Spike	Total/NA	Solid	8015B NM	107817
880-56944-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	107817

Analysis Batch: 107856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-3	CS 49	Total/NA	Solid	8015B NM	107818
890-7941-4	CS 58	Total/NA	Solid	8015B NM	107818
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015B NM	107818
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107818
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107818
880-56945-A-9-D MS	Matrix Spike	Total/NA	Solid	8015B NM	107818
880-56945-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	107818

Analysis Batch: 107953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	8015 NM	
890-7941-2	CS 29	Total/NA	Solid	8015 NM	
890-7941-3	CS 49	Total/NA	Solid	8015 NM	
890-7941-4	CS 58	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 107878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Soluble	Solid	DI Leach	
890-7941-2	CS 29	Soluble	Solid	DI Leach	
890-7941-3	CS 49	Soluble	Solid	DI Leach	
890-7941-4	CS 58	Soluble	Solid	DI Leach	
MB 880-107878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-56901-D-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-56901-D-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-56947-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-56947-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 107887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Soluble	Solid	300.0	107878
890-7941-2	CS 29	Soluble	Solid	300.0	107878
890-7941-3	CS 49	Soluble	Solid	300.0	107878
890-7941-4	CS 58	Soluble	Solid	300.0	107878
MB 880-107878/1-A	Method Blank	Soluble	Solid	300.0	107878
LCS 880-107878/2-A	Lab Control Sample	Soluble	Solid	300.0	107878
LCSD 880-107878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107878
880-56901-D-1-B MS	Matrix Spike	Soluble	Solid	300.0	107878

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

HPLC/IC (Continued)

Analysis Batch: 107887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56901-D-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	107878
880-56947-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	107878
880-56947-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	107878

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 28

Lab Sample ID: 890-7941-1

Date Collected: 04/14/25 10:05
Matrix: Solid
Date Received: 04/15/25 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	107721	04/16/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 23:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107999	04/16/25 23:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			107953	04/17/25 00:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	107817	04/16/25 08:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107854	04/17/25 00:14	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	107878	04/16/25 12:45	SA	EET MID
Soluble	Analysis	300.0		1			107887	04/16/25 22:20	CH	EET MID

Client Sample ID: CS 29

Lab Sample ID: 890-7941-2

Date Collected: 04/14/25 10:29
Matrix: Solid
Date Received: 04/15/25 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	107721	04/16/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/17/25 00:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107999	04/17/25 00:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			107953	04/17/25 00:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	107817	04/16/25 08:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107854	04/17/25 00:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	107878	04/16/25 12:45	SA	EET MID
Soluble	Analysis	300.0		5			107887	04/16/25 22:27	CH	EET MID

Client Sample ID: CS 49

Lab Sample ID: 890-7941-3

Date Collected: 04/14/25 10:35
Matrix: Solid
Date Received: 04/15/25 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	107721	04/16/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/17/25 00:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107999	04/17/25 00:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			107953	04/17/25 00:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	107818	04/16/25 08:30	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107856	04/17/25 00:14	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	107878	04/16/25 12:45	SA	EET MID
Soluble	Analysis	300.0		5			107887	04/16/25 22:35	CH	EET MID

Client Sample ID: CS 58

Lab Sample ID: 890-7941-4

Date Collected: 04/14/25 10:35
Matrix: Solid
Date Received: 04/15/25 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	107721	04/16/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/17/25 00:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107999	04/17/25 00:54	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 58

Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24

Lab Sample ID: 890-7941-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			107953	04/17/25 00:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107818	04/16/25 08:30	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107856	04/17/25 00:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	107878	04/16/25 12:45	SA	EET MID
Soluble	Analysis	300.0		10			107887	04/16/25 22:42	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7941-1	CS 28	Solid	04/14/25 10:05	04/15/25 16:24	0.5'
890-7941-2	CS 29	Solid	04/14/25 10:29	04/15/25 16:24	0.5'
890-7941-3	CS 49	Solid	04/14/25 10:35	04/15/25 16:24	0.5'
890-7941-4	CS 58	Solid	04/14/25 10:35	04/15/25 16:24	0.5'

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

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

Work Order Comments

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

Project Name:	Flat Lund FNR Frac Lund	Turn Around	☑ Routine ☐ Rush
Project Number:	03D383 6001	Due Date:	
Project Location:	Eddy Co, NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Nicolas Christoulos		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	Tnmac7	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.6	
Total Containers:		Corrected Temperature:	3.4	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
CS28	Soil	04/14/25	10:05	0.5'	C	1	✓	✓	✓
CS29	Soil	04/14/25	10:29	0.5'	C	1	✓	✓	✓
CS49	Soil	04/14/25	10:35	0.5'	C	1	✓	✓	✓
CS58	Soil	04/14/25	10:35	0.5'	C	1	✓	✓	✓

ANALYSIS REQUEST

890-7941 Chain of Custody

NFE 04/14/2025 NC

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Nicolas Christoulos		4/15 16:2	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7941-1
SDG Number: 03D3836001

Login Number: 7941
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7941-1
SDG Number: 03D3836001

Login Number: 7941
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 04/16/25 09:31 AM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/22/2025 1:35:01 PM

JOB DESCRIPTION

Flatland FNR Frac Line
Eddy County

JOB NUMBER

880-56962-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:31 PM

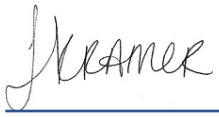
Eurofins Midland

Job Notes

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

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

Authorization



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4/22/2025 1:35:01 PM

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

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Laboratory Job ID: 880-56962-1
SDG: Eddy County

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 880-56962-1
Project: Flatland FNR Frac Line

Job ID: 880-56962-1 Eurofins Midland

Job Narrative
880-56962-1

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

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

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

Receipt
The samples were received on 4/16/2025 8:27 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 -0.7°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 196 (880-56962-1), CS 198 (880-56962-2), CS 188 (880-56962-3), CS 189 (880-56962-4), CS 203 (880-56962-5), CS 187 (880-56962-6), CS 191 (880-56962-7), CS 194 (880-56962-8), CS 197 (880-56962-9), CS 190 (880-56962-10), CS 193 (880-56962-11), CS 221 (880-56962-12), CS 224 (880-56962-13), CS 199 (880-56962-14), CS 230 (880-56962-15), CS 234 (880-56962-16), CS 189 (880-56962-17), CS 192 (880-56962-18), CS 195 (880-56962-19), CS 188 (880-56962-20) and CS 188 (880-56962-21).

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-107892 and analytical batch 880-107933 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 samples were outside control limits: CS 198 (880-56962-2), CS 188 (880-56962-3), CS 189 (880-56962-4), CS 203 (880-56962-5), CS 187 (880-56962-6), CS 191 (880-56962-7), CS 197 (880-56962-9) and CS 190 (880-56962-10). 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: CS 221 (880-56962-12), CS 224 (880-56962-13), CS 230 (880-56962-15), CS 234 (880-56962-16), CS 189 (880-56962-17), CS 192 (880-56962-18) and CS 195 (880-56962-19). 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-107817/2-A), (880-56944-A-7-B), (880-56944-A-7-C MS) and (880-56944-A-7-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 188 (880-56962-3), CS 189 (880-56962-4), CS 187 (880-56962-6), CS 191 (880-56962-7) and (LCSD 880-107817/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-107818 and analytical batch 880-107856 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-107818/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 197 (880-56962-9), CS 190 (880-56962-10), CS 193 (880-56962-11), CS 221 (880-56962-12), CS 224 (880-56962-13), (880-56945-A-9-C), (880-56945-A-9-D MS) and (880-56945-A-9-E MSD). Evidence of matrix interferences is not obvious.

Eurofins Midland

Case Narrative

Client: Ensolum Job ID: 880-56962-1
Project: Flatland FNR Frac Line

Job ID: 880-56962-1 (Continued) Eurofins Midland

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 230 (880-56962-15), CS 234 (880-56962-16), CS 189 (880-56962-17), CS 195 (880-56962-19), (880-56962-A-15-D MS) and (880-56962-A-15-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107949 and analytical batch 880-108189 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.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107897 and analytical batch 880-107903 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 196

Date Collected: 04/15/25 12:16
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
Toluene	<0.00202	U F1	0.00202		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/16/25 14:28	04/17/25 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*04/16/25 14:28*	*04/17/25 12:52*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*04/16/25 14:28*	*04/17/25 12:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/17/25 12:52	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/17/25 00:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		04/16/25 08:26	04/17/25 00:45	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		04/16/25 08:26	04/17/25 00:45	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/16/25 08:26	04/17/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*04/16/25 08:26*	*04/17/25 00:45*	*1*
o-Terphenyl	*130*		*70 - 130*	*04/16/25 08:26*	*04/17/25 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.6**	**F1**	10.0		mg/Kg			04/16/25 22:54	1

Client Sample ID: CS 198

Date Collected: 04/15/25 12:20
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/25 14:28	04/17/25 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 13:12*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*04/16/25 14:28*	*04/17/25 13:12*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 198

Lab Sample ID: 880-56962-2
Date Collected: 04/15/25 12:20
Matrix: Solid
Date Received: 04/16/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/17/25 13:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/17/25 00:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/16/25 08:26	04/17/25 00:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/16/25 08:26	04/17/25 00:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/16/25 08:26	04/17/25 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*04/16/25 08:26*	*04/17/25 00:59*	*1*
o-Terphenyl	*125*		*70 - 130*	*04/16/25 08:26*	*04/17/25 00:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		9.96		mg/Kg			04/16/25 21:57	1

Client Sample ID: CS 188

Lab Sample ID: 880-56962-3
Date Collected: 04/15/25 12:14
Matrix: Solid
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 13:33*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*04/16/25 14:28*	*04/17/25 13:33*	*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			04/17/25 13:33	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/17/25 01:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		04/16/25 08:26	04/17/25 01:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/16/25 08:26	04/17/25 01:14	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 188

Lab Sample ID: 880-56962-3
Matrix: Solid
Date Collected: 04/15/25 12:14
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/16/25 08:26	04/17/25 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:14*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.8**		10.1		mg/Kg			04/16/25 23:11	1

Client Sample ID: CS 189

Lab Sample ID: 880-56962-4
Matrix: Solid
Date Collected: 04/15/25 12:25
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 13:53*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*04/16/25 14:28*	*04/17/25 13:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/25 13:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/17/25 01:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/25 08:26	04/17/25 01:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/25 08:26	04/17/25 01:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/25 08:26	04/17/25 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:30*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.1**		10.1		mg/Kg			04/16/25 23:17	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 203

Lab Sample ID: 880-56962-5
Matrix: Solid
Date Collected: 04/15/25 13:32
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 14:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/25 14:28	04/17/25 14:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/25 14:28	04/17/25 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 14:14*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*04/16/25 14:28*	*04/17/25 14:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/17/25 14:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/17/25 01:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/17/25 01:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/17/25 01:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/17/25 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*04/16/25 08:26*	*04/17/25 01:45*	*1*
o-Terphenyl	*128*		*70 - 130*	*04/16/25 08:26*	*04/17/25 01:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.4**		10.0		mg/Kg			04/16/25 23:23	1

Client Sample ID: CS 187

Lab Sample ID: 880-56962-6
Matrix: Solid
Date Collected: 04/15/25 13:34
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 14:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 14:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 14:34*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/16/25 14:28*	*04/17/25 14:34*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 187

Lab Sample ID: 880-56962-6
Matrix: Solid
Date Collected: 04/15/25 13:34
Date Received: 04/16/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 14:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/17/25 01:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/25 08:26	04/17/25 01:59	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/25 08:26	04/17/25 01:59	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/25 08:26	04/17/25 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:59*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**132**		9.98		mg/Kg			04/16/25 23:29	1

Client Sample ID: CS 191

Lab Sample ID: 880-56962-7
Matrix: Solid
Date Collected: 04/15/25 13:40
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/16/25 14:28	04/17/25 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 14:55*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/16/25 14:28*	*04/17/25 14:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/17/25 14:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			04/17/25 02:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		04/16/25 08:26	04/17/25 02:14	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		04/16/25 08:26	04/17/25 02:14	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 191

Lab Sample ID: 880-56962-7
Matrix: Solid
Date Collected: 04/15/25 13:40
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		04/16/25 08:26	04/17/25 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 02:14*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 02:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.7**		9.94		mg/Kg			04/16/25 23:46	1

Client Sample ID: CS 197

Lab Sample ID: 880-56962-9
Matrix: Solid
Date Collected: 04/15/25 13:46
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 15:15*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/16/25 14:28*	*04/17/25 15:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/25 15:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/17/25 00:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 00:45	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 00:45	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:45*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.7**		10.1		mg/Kg			04/16/25 23:52	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 190

Date Collected: 04/15/25 11:12
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 15:36*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/16/25 14:28*	*04/17/25 15:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/17/25 15:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/17/25 00:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:59*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5400**		101		mg/Kg			04/16/25 23:58	10

Client Sample ID: CS 193

Date Collected: 04/15/25 11:14
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-11
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 15:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 15:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 15:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 15:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 15:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*04/16/25 14:28*	*04/17/25 15:56*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/16/25 14:28*	*04/17/25 15:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 193

Lab Sample ID: 880-56962-11
Matrix: Solid
Date Collected: 04/15/25 11:14
Date Received: 04/16/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 15:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/17/25 01:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:14	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:14	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:14*	*1*
o-Terphenyl	*156*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		9.98		mg/Kg			04/17/25 00:03	1

Client Sample ID: CS 221

Lab Sample ID: 880-56962-12
Matrix: Solid
Date Collected: 04/15/25 11:18
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 17:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 17:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 17:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 17:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 17:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/16/25 14:28*	*04/17/25 17:47*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/16/25 14:28*	*04/17/25 17:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 17:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/17/25 01:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 01:30	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 01:30	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 221

Lab Sample ID: 880-56962-12
Date Collected: 04/15/25 11:18
Matrix: Solid
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:30*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.0**		9.90		mg/Kg			04/17/25 00:09	1

Client Sample ID: CS 224

Lab Sample ID: 880-56962-13
Date Collected: 04/15/25 11:19
Matrix: Solid
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 18:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 18:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 18:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 18:07*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*04/16/25 14:28*	*04/17/25 18:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 18:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/17/25 01:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:45	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:45	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:45*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		9.98		mg/Kg			04/17/25 00:15	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 230

Lab Sample ID: 880-56962-15
Matrix: Solid
Date Collected: 04/15/25 11:28
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 18:28*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*04/16/25 14:28*	*04/17/25 18:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/17/25 18:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			04/21/25 11:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U F1	50.2		mg/Kg		04/17/25 11:23	04/21/25 11:56	1
Diesel Range Organics (Over C10-C28)	<50.2	U F1	50.2		mg/Kg		04/17/25 11:23	04/21/25 11:56	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/17/25 11:23	04/21/25 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 11:56*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 11:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		10.1		mg/Kg			04/17/25 00:32	1

Client Sample ID: CS 234

Lab Sample ID: 880-56962-16
Matrix: Solid
Date Collected: 04/15/25 11:30
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/16/25 14:28	04/17/25 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 18:48*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*04/16/25 14:28*	*04/17/25 18:48*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 234

Lab Sample ID: 880-56962-16
Date Collected: 04/15/25 11:30
Matrix: Solid
Date Received: 04/16/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/17/25 18:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/25 12:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 12:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 12:44*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 12:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		10.1		mg/Kg			04/17/25 00:38	1

Client Sample ID: CS 189

Lab Sample ID: 880-56962-17
Date Collected: 04/15/25 12:28
Matrix: Solid
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 19:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 19:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 19:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 19:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 19:08	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 19:08*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*04/16/25 14:28*	*04/17/25 19:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 19:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/21/25 12:58	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 12:58	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 12:58	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 189

Lab Sample ID: 880-56962-17
Matrix: Solid
Date Collected: 04/15/25 12:28
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 12:58*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 12:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.7**		9.96		mg/Kg			04/17/25 00:55	1

Client Sample ID: CS 192

Lab Sample ID: 880-56962-18
Matrix: Solid
Date Collected: 04/15/25 12:29
Date Received: 04/16/25 08:27

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 19:29*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*04/16/25 14:28*	*04/17/25 19:29*	*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			04/17/25 19:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/25 13:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 11:23	04/21/25 13:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 11:23	04/21/25 13:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 11:23	04/21/25 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*04/17/25 11:23*	*04/21/25 13:13*	*1*
o-Terphenyl	*129*		*70 - 130*	*04/17/25 11:23*	*04/21/25 13:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		10.1		mg/Kg			04/17/25 01:01	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 195

Date Collected: 04/15/25 12:22
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-19

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 19:49*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/16/25 14:28*	*04/17/25 19:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/25 19:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/21/25 13:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 13:28	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 13:28	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 13:28*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.1**		9.96		mg/Kg			04/17/25 01:07	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-56962-1	CS 196	125	115
880-56962-1 MS	CS 196	122	109
880-56962-1 MSD	CS 196	124	120
880-56962-2	CS 198	136 S1+	115
880-56962-3	CS 188	132 S1+	117
880-56962-4	CS 189	140 S1+	116
880-56962-5	CS 203	143 S1+	118
880-56962-6	CS 187	131 S1+	109
880-56962-7	CS 191	137 S1+	109
880-56962-9	CS 197	145 S1+	112
880-56962-10	CS 190	135 S1+	112
880-56962-11	CS 193	122	104
880-56962-12	CS 221	97	98
880-56962-13	CS 224	135 S1+	114
880-56962-15	CS 230	136 S1+	119
880-56962-16	CS 234	139 S1+	115
880-56962-17	CS 189	140 S1+	113
880-56962-18	CS 192	136 S1+	115
880-56962-19	CS 195	140 S1+	111
LCS 880-107892/1-A	Lab Control Sample	118	101
LCSD 880-107892/2-A	Lab Control Sample Dup	118	96
MB 880-107892/5-A	Method Blank	96	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-56962-1	CS 196	110	130
880-56962-2	CS 198	117	125
880-56962-3	CS 188	139 S1+	142 S1+
880-56962-4	CS 189	141 S1+	145 S1+
880-56962-5	CS 203	109	128
880-56962-6	CS 187	140 S1+	144 S1+
880-56962-7	CS 191	141 S1+	145 S1+
880-56962-9	CS 197	142 S1+	147 S1+
880-56962-10	CS 190	149 S1+	151 S1+
880-56962-11	CS 193	148 S1+	156 S1+
880-56962-12	CS 221	137 S1+	144 S1+
880-56962-13	CS 224	138 S1+	148 S1+
880-56962-15	CS 230	142 S1+	145 S1+
880-56962-15 MS	CS 230	150 S1+	143 S1+
880-56962-15 MSD	CS 230	155 S1+	148 S1+
880-56962-16	CS 234	141 S1+	145 S1+
880-56962-17	CS 189	136 S1+	137 S1+

Surrogate Summary

Client: Ensolum Job ID: 880-56962-1
Project/Site: Flatland FNR Frac Line SDG: Eddy County

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-56962-18	CS 192	129	129										
880-56962-19	CS 195	132 S1+	133 S1+										
LCS 880-107817/2-A	Lab Control Sample	140 S1+	130										
LCS 880-107818/2-A	Lab Control Sample	131 S1+	124										
LCS 880-107949/2-A	Lab Control Sample	110	105										
LCSD 880-107817/3-A	Lab Control Sample Dup	140 S1+	133 S1+										
LCSD 880-107818/3-A	Lab Control Sample Dup	116	110										
LCSD 880-107949/3-A	Lab Control Sample Dup	111	107										
MB 880-107817/1-A	Method Blank	122	124										
MB 880-107818/1-A	Method Blank	100	102										
MB 880-107949/1-A	Method Blank	85	90										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107892/5-A
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107892

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/25 14:28	04/17/25 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/16/25 14:28*	*04/17/25 12:31*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/16/25 14:28*	*04/17/25 12:31*	*1*

Lab Sample ID: LCS 880-107892/1-A
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107892

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08525		mg/Kg		85	70 - 130		
Toluene			0.100	0.07723		mg/Kg		77	70 - 130		
Ethylbenzene			0.100	0.08227		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene			0.200	0.1763		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09160		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-107892/2-A
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107892

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1015		mg/Kg		102	70 - 130	17	35
Toluene			0.100	0.09295		mg/Kg		93	70 - 130	18	35
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130	23	35
m-Xylene & p-Xylene			0.200	0.2151		mg/Kg		108	70 - 130	20	35
o-Xylene			0.100	0.1034		mg/Kg		103	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-56962-1 MS
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: CS 196
Prep Type: Total/NA
Prep Batch: 107892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.09856		mg/Kg		99	70 - 130		
Toluene	<0.00202	U F1	0.100	0.07968		mg/Kg		80	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

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

Lab Sample ID: 880-56962-1 MS
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: CS 196
Prep Type: Total/NA
Prep Batch: 107892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.08826		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1781		mg/Kg		89	70 - 130
o-Xylene	<0.00202	U	0.100	0.08902		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-56962-1 MSD
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: CS 196
Prep Type: Total/NA
Prep Batch: 107892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08920		mg/Kg		89	70 - 130	10	35
Toluene	<0.00202	U F1	0.100	0.06364	F1	mg/Kg		64	70 - 130	22	35
Ethylbenzene	<0.00202	U	0.100	0.07146		mg/Kg		71	70 - 130	21	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1511		mg/Kg		76	70 - 130	16	35
o-Xylene	<0.00202	U	0.100	0.07846		mg/Kg		78	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

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

Lab Sample ID: MB 880-107817/1-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107817

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/16/25 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/16/25 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/16/25 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*04/16/25 08:26*	*04/16/25 20:01*	*1*
o-Terphenyl	*124*		*70 - 130*	*04/16/25 08:26*	*04/16/25 20:01*	*1*

Lab Sample ID: LCS 880-107817/2-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107817

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1119		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1110		mg/Kg		111	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-107817/2-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107817

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-107817/3-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107817

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1087		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1114		mg/Kg		111	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: MB 880-107818/1-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107818

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/16/25 08:30	04/16/25 20:01	1
o-Terphenyl	102		70 - 130	04/16/25 08:30	04/16/25 20:01	1

Lab Sample ID: LCS 880-107818/2-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107818

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	944.8		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	124		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-107818/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107856 — **Prep Batch: 107818**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	867.6		mg/Kg		87	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: MB 880-107949/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108189 — **Prep Batch: 107949**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/17/25 11:23*	*04/21/25 09:44*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/17/25 11:23*	*04/21/25 09:44*	*1*

Lab Sample ID: LCS 880-107949/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108189 — **Prep Batch: 107949**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	742.9		mg/Kg		74	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	950.7		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-107949/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108189 — **Prep Batch: 107949**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	791.1		mg/Kg		79	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	976.2		mg/Kg		98	70 - 130	3	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-107949/3-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107949

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 880-56962-15 MS
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: CS 230
Prep Type: Total/NA
Prep Batch: 107949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U F1	995	1334	F1	mg/Kg		132	70 - 130
Diesel Range Organics (Over C10-C28)	<50.2	U F1	995	1363	F1	mg/Kg		134	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	150	S1+	70 - 130
o-Terphenyl	143	S1+	70 - 130

Lab Sample ID: 880-56962-15 MSD
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: CS 230
Prep Type: Total/NA
Prep Batch: 107949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U F1	995	1389	F1	mg/Kg		137	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.2	U F1	995	1453	F1	mg/Kg		143	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	155	S1+	70 - 130
o-Terphenyl	148	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107889/1-A
Matrix: Solid
Analysis Batch: 107893

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/16/25 19:33	1

Lab Sample ID: LCS 880-107889/2-A
Matrix: Solid
Analysis Batch: 107893

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	267.0		mg/Kg		107	90 - 110

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-107889/3-A
Matrix: Solid
Analysis Batch: 107893

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	268.2		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-107897/1-A
Matrix: Solid
Analysis Batch: 107903

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/16/25 22:37	1

Lab Sample ID: LCS 880-107897/2-A
Matrix: Solid
Analysis Batch: 107903

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	268.7		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-107897/3-A
Matrix: Solid
Analysis Batch: 107903

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	269.4		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-56962-1 MS
Matrix: Solid
Analysis Batch: 107903

Client Sample ID: CS 196
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	72.6	F1	251	357.6	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-56962-1 MSD
Matrix: Solid
Analysis Batch: 107903

Client Sample ID: CS 196
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72.6	F1	251	358.5	F1	mg/Kg		114	90 - 110	0	20

Lab Sample ID: 880-56962-13 MS
Matrix: Solid
Analysis Batch: 107903

Client Sample ID: CS 224
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	104		250	368.6		mg/Kg		106	90 - 110		

Lab Sample ID: 880-56962-13 MSD
Matrix: Solid
Analysis Batch: 107903

Client Sample ID: CS 224
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	104		250	369.5		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

GC VOA

Prep Batch: 107892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	5035	
880-56962-2	CS 198	Total/NA	Solid	5035	
880-56962-3	CS 188	Total/NA	Solid	5035	
880-56962-4	CS 189	Total/NA	Solid	5035	
880-56962-5	CS 203	Total/NA	Solid	5035	
880-56962-6	CS 187	Total/NA	Solid	5035	
880-56962-7	CS 191	Total/NA	Solid	5035	
880-56962-9	CS 197	Total/NA	Solid	5035	
880-56962-10	CS 190	Total/NA	Solid	5035	
880-56962-11	CS 193	Total/NA	Solid	5035	
880-56962-12	CS 221	Total/NA	Solid	5035	
880-56962-13	CS 224	Total/NA	Solid	5035	
880-56962-15	CS 230	Total/NA	Solid	5035	
880-56962-16	CS 234	Total/NA	Solid	5035	
880-56962-17	CS 189	Total/NA	Solid	5035	
880-56962-18	CS 192	Total/NA	Solid	5035	
880-56962-19	CS 195	Total/NA	Solid	5035	
MB 880-107892/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107892/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107892/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-56962-1 MS	CS 196	Total/NA	Solid	5035	
880-56962-1 MSD	CS 196	Total/NA	Solid	5035	

Analysis Batch: 107933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	8021B	107892
880-56962-2	CS 198	Total/NA	Solid	8021B	107892
880-56962-3	CS 188	Total/NA	Solid	8021B	107892
880-56962-4	CS 189	Total/NA	Solid	8021B	107892
880-56962-5	CS 203	Total/NA	Solid	8021B	107892
880-56962-6	CS 187	Total/NA	Solid	8021B	107892
880-56962-7	CS 191	Total/NA	Solid	8021B	107892
880-56962-9	CS 197	Total/NA	Solid	8021B	107892
880-56962-10	CS 190	Total/NA	Solid	8021B	107892
880-56962-11	CS 193	Total/NA	Solid	8021B	107892
880-56962-12	CS 221	Total/NA	Solid	8021B	107892
880-56962-13	CS 224	Total/NA	Solid	8021B	107892
880-56962-15	CS 230	Total/NA	Solid	8021B	107892
880-56962-16	CS 234	Total/NA	Solid	8021B	107892
880-56962-17	CS 189	Total/NA	Solid	8021B	107892
880-56962-18	CS 192	Total/NA	Solid	8021B	107892
880-56962-19	CS 195	Total/NA	Solid	8021B	107892
MB 880-107892/5-A	Method Blank	Total/NA	Solid	8021B	107892
LCS 880-107892/1-A	Lab Control Sample	Total/NA	Solid	8021B	107892
LCSD 880-107892/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107892
880-56962-1 MS	CS 196	Total/NA	Solid	8021B	107892
880-56962-1 MSD	CS 196	Total/NA	Solid	8021B	107892

Analysis Batch: 108018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 108018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-2	CS 198	Total/NA	Solid	Total BTEX	
880-56962-3	CS 188	Total/NA	Solid	Total BTEX	
880-56962-4	CS 189	Total/NA	Solid	Total BTEX	
880-56962-5	CS 203	Total/NA	Solid	Total BTEX	
880-56962-6	CS 187	Total/NA	Solid	Total BTEX	
880-56962-7	CS 191	Total/NA	Solid	Total BTEX	
880-56962-9	CS 197	Total/NA	Solid	Total BTEX	
880-56962-10	CS 190	Total/NA	Solid	Total BTEX	
880-56962-11	CS 193	Total/NA	Solid	Total BTEX	
880-56962-12	CS 221	Total/NA	Solid	Total BTEX	
880-56962-13	CS 224	Total/NA	Solid	Total BTEX	
880-56962-15	CS 230	Total/NA	Solid	Total BTEX	
880-56962-16	CS 234	Total/NA	Solid	Total BTEX	
880-56962-17	CS 189	Total/NA	Solid	Total BTEX	
880-56962-18	CS 192	Total/NA	Solid	Total BTEX	
880-56962-19	CS 195	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	8015NM Prep	
880-56962-2	CS 198	Total/NA	Solid	8015NM Prep	
880-56962-3	CS 188	Total/NA	Solid	8015NM Prep	
880-56962-4	CS 189	Total/NA	Solid	8015NM Prep	
880-56962-5	CS 203	Total/NA	Solid	8015NM Prep	
880-56962-6	CS 187	Total/NA	Solid	8015NM Prep	
880-56962-7	CS 191	Total/NA	Solid	8015NM Prep	
MB 880-107817/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107817/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 107818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-9	CS 197	Total/NA	Solid	8015NM Prep	
880-56962-10	CS 190	Total/NA	Solid	8015NM Prep	
880-56962-11	CS 193	Total/NA	Solid	8015NM Prep	
880-56962-12	CS 221	Total/NA	Solid	8015NM Prep	
880-56962-13	CS 224	Total/NA	Solid	8015NM Prep	
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	8015B NM	107817
880-56962-2	CS 198	Total/NA	Solid	8015B NM	107817
880-56962-3	CS 188	Total/NA	Solid	8015B NM	107817
880-56962-4	CS 189	Total/NA	Solid	8015B NM	107817
880-56962-5	CS 203	Total/NA	Solid	8015B NM	107817
880-56962-6	CS 187	Total/NA	Solid	8015B NM	107817

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 107854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-7	CS 191	Total/NA	Solid	8015B NM	107817
MB 880-107817/1-A	Method Blank	Total/NA	Solid	8015B NM	107817
LCS 880-107817/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107817
LCSD 880-107817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107817

Analysis Batch: 107856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-9	CS 197	Total/NA	Solid	8015B NM	107818
880-56962-10	CS 190	Total/NA	Solid	8015B NM	107818
880-56962-11	CS 193	Total/NA	Solid	8015B NM	107818
880-56962-12	CS 221	Total/NA	Solid	8015B NM	107818
880-56962-13	CS 224	Total/NA	Solid	8015B NM	107818
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015B NM	107818
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107818
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107818

Prep Batch: 107949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-15	CS 230	Total/NA	Solid	8015NM Prep	
880-56962-16	CS 234	Total/NA	Solid	8015NM Prep	
880-56962-17	CS 189	Total/NA	Solid	8015NM Prep	
880-56962-18	CS 192	Total/NA	Solid	8015NM Prep	
880-56962-19	CS 195	Total/NA	Solid	8015NM Prep	
MB 880-107949/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107949/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-56962-15 MS	CS 230	Total/NA	Solid	8015NM Prep	
880-56962-15 MSD	CS 230	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	8015 NM	
880-56962-2	CS 198	Total/NA	Solid	8015 NM	
880-56962-3	CS 188	Total/NA	Solid	8015 NM	
880-56962-4	CS 189	Total/NA	Solid	8015 NM	
880-56962-5	CS 203	Total/NA	Solid	8015 NM	
880-56962-6	CS 187	Total/NA	Solid	8015 NM	
880-56962-7	CS 191	Total/NA	Solid	8015 NM	
880-56962-9	CS 197	Total/NA	Solid	8015 NM	
880-56962-10	CS 190	Total/NA	Solid	8015 NM	
880-56962-11	CS 193	Total/NA	Solid	8015 NM	
880-56962-12	CS 221	Total/NA	Solid	8015 NM	
880-56962-13	CS 224	Total/NA	Solid	8015 NM	
880-56962-15	CS 230	Total/NA	Solid	8015 NM	
880-56962-16	CS 234	Total/NA	Solid	8015 NM	
880-56962-17	CS 189	Total/NA	Solid	8015 NM	
880-56962-18	CS 192	Total/NA	Solid	8015 NM	
880-56962-19	CS 195	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 108189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-15	CS 230	Total/NA	Solid	8015B NM	107949
880-56962-16	CS 234	Total/NA	Solid	8015B NM	107949
880-56962-17	CS 189	Total/NA	Solid	8015B NM	107949
880-56962-18	CS 192	Total/NA	Solid	8015B NM	107949
880-56962-19	CS 195	Total/NA	Solid	8015B NM	107949
MB 880-107949/1-A	Method Blank	Total/NA	Solid	8015B NM	107949
LCS 880-107949/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107949
LCSD 880-107949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107949
880-56962-15 MS	CS 230	Total/NA	Solid	8015B NM	107949
880-56962-15 MSD	CS 230	Total/NA	Solid	8015B NM	107949

HPLC/IC

Leach Batch: 107889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-2	CS 198	Soluble	Solid	DI Leach	
MB 880-107889/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107889/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107889/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 107893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-2	CS 198	Soluble	Solid	300.0	107889
MB 880-107889/1-A	Method Blank	Soluble	Solid	300.0	107889
LCS 880-107889/2-A	Lab Control Sample	Soluble	Solid	300.0	107889
LCSD 880-107889/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107889

Leach Batch: 107897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Soluble	Solid	DI Leach	
880-56962-3	CS 188	Soluble	Solid	DI Leach	
880-56962-4	CS 189	Soluble	Solid	DI Leach	
880-56962-5	CS 203	Soluble	Solid	DI Leach	
880-56962-6	CS 187	Soluble	Solid	DI Leach	
880-56962-7	CS 191	Soluble	Solid	DI Leach	
880-56962-9	CS 197	Soluble	Solid	DI Leach	
880-56962-10	CS 190	Soluble	Solid	DI Leach	
880-56962-11	CS 193	Soluble	Solid	DI Leach	
880-56962-12	CS 221	Soluble	Solid	DI Leach	
880-56962-13	CS 224	Soluble	Solid	DI Leach	
880-56962-15	CS 230	Soluble	Solid	DI Leach	
880-56962-16	CS 234	Soluble	Solid	DI Leach	
880-56962-17	CS 189	Soluble	Solid	DI Leach	
880-56962-18	CS 192	Soluble	Solid	DI Leach	
880-56962-19	CS 195	Soluble	Solid	DI Leach	
MB 880-107897/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107897/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107897/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-56962-1 MS	CS 196	Soluble	Solid	DI Leach	
880-56962-1 MSD	CS 196	Soluble	Solid	DI Leach	
880-56962-13 MS	CS 224	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 107897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-13 MSD	CS 224	Soluble	Solid	DI Leach	

Analysis Batch: 107903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Soluble	Solid	300.0	107897
880-56962-3	CS 188	Soluble	Solid	300.0	107897
880-56962-4	CS 189	Soluble	Solid	300.0	107897
880-56962-5	CS 203	Soluble	Solid	300.0	107897
880-56962-6	CS 187	Soluble	Solid	300.0	107897
880-56962-7	CS 191	Soluble	Solid	300.0	107897
880-56962-9	CS 197	Soluble	Solid	300.0	107897
880-56962-10	CS 190	Soluble	Solid	300.0	107897
880-56962-11	CS 193	Soluble	Solid	300.0	107897
880-56962-12	CS 221	Soluble	Solid	300.0	107897
880-56962-13	CS 224	Soluble	Solid	300.0	107897
880-56962-15	CS 230	Soluble	Solid	300.0	107897
880-56962-16	CS 234	Soluble	Solid	300.0	107897
880-56962-17	CS 189	Soluble	Solid	300.0	107897
880-56962-18	CS 192	Soluble	Solid	300.0	107897
880-56962-19	CS 195	Soluble	Solid	300.0	107897
MB 880-107897/1-A	Method Blank	Soluble	Solid	300.0	107897
LCS 880-107897/2-A	Lab Control Sample	Soluble	Solid	300.0	107897
LCSD 880-107897/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107897
880-56962-1 MS	CS 196	Soluble	Solid	300.0	107897
880-56962-1 MSD	CS 196	Soluble	Solid	300.0	107897
880-56962-13 MS	CS 224	Soluble	Solid	300.0	107897
880-56962-13 MSD	CS 224	Soluble	Solid	300.0	107897

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 196
Date Collected: 04/15/25 12:16
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 12:52
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 12:52
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 00:45
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 00:45
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 22:54

Client Sample ID: CS 198
Date Collected: 04/15/25 12:20
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 13:12
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 13:12
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 00:59
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 00:59
Soluble	Leach	DI Leach			107889	SA	EET MID	04/16/25 14:12
Soluble	Analysis	300.0		1	107893	CH	EET MID	04/16/25 21:57

Client Sample ID: CS 188
Date Collected: 04/15/25 12:14
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 13:33
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 13:33
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:14
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 01:14
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:11

Client Sample ID: CS 189
Date Collected: 04/15/25 12:25
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 13:53
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 13:53

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 189

Lab Sample ID: 880-56962-4
Matrix: Solid
Date Collected: 04/15/25 12:25
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:30
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 01:30
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:17

Client Sample ID: CS 203

Lab Sample ID: 880-56962-5
Matrix: Solid
Date Collected: 04/15/25 13:32
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 14:14
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 14:14
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:45
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 01:45
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:23

Client Sample ID: CS 187

Lab Sample ID: 880-56962-6
Matrix: Solid
Date Collected: 04/15/25 13:34
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 14:34
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 14:34
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:59
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 01:59
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:29

Client Sample ID: CS 191

Lab Sample ID: 880-56962-7
Matrix: Solid
Date Collected: 04/15/25 13:40
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 14:55
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 14:55
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 02:14
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 02:14

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 191

Date Collected: 04/15/25 13:40
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:46

Client Sample ID: CS 197

Date Collected: 04/15/25 13:46
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 15:15
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 15:15
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 00:45
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 00:45
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:52

Client Sample ID: CS 190

Date Collected: 04/15/25 11:12
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 15:36
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 15:36
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 00:59
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 00:59
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		10	107903	CH	EET MID	04/16/25 23:58

Client Sample ID: CS 193

Date Collected: 04/15/25 11:14
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 15:56
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 15:56
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:14
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 01:14
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:03

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 221

Lab Sample ID: 880-56962-12
Matrix: Solid
Date Collected: 04/15/25 11:18
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 17:47
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 17:47
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:30
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 01:30
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:09

Client Sample ID: CS 224

Lab Sample ID: 880-56962-13
Matrix: Solid
Date Collected: 04/15/25 11:19
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 18:07
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 18:07
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:45
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 01:45
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:15

Client Sample ID: CS 230

Lab Sample ID: 880-56962-15
Matrix: Solid
Date Collected: 04/15/25 11:28
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 18:28
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 18:28
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 11:56
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 11:56
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:32

Client Sample ID: CS 234

Lab Sample ID: 880-56962-16
Matrix: Solid
Date Collected: 04/15/25 11:30
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 18:48
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 18:48

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 234
Date Collected: 04/15/25 11:30
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 12:44
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 12:44
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:38

Client Sample ID: CS 189
Date Collected: 04/15/25 12:28
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 19:08
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 19:08
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 12:58
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 12:58
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:55

Client Sample ID: CS 192
Date Collected: 04/15/25 12:29
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 19:29
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 19:29
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 13:13
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 13:13
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 01:01

Client Sample ID: CS 195
Date Collected: 04/15/25 12:22
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 19:49
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 19:49
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 13:28
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 13:28

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 195

Date Collected: 04/15/25 12:22
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 01:07

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-56962-1	CS 196	Solid	04/15/25 12:16	04/16/25 08:27
880-56962-2	CS 198	Solid	04/15/25 12:20	04/16/25 08:27
880-56962-3	CS 188	Solid	04/15/25 12:14	04/16/25 08:27
880-56962-4	CS 189	Solid	04/15/25 12:25	04/16/25 08:27
880-56962-5	CS 203	Solid	04/15/25 13:32	04/16/25 08:27
880-56962-6	CS 187	Solid	04/15/25 13:34	04/16/25 08:27
880-56962-7	CS 191	Solid	04/15/25 13:40	04/16/25 08:27
880-56962-9	CS 197	Solid	04/15/25 13:46	04/16/25 08:27
880-56962-10	CS 190	Solid	04/15/25 11:12	04/16/25 08:27
880-56962-11	CS 193	Solid	04/15/25 11:14	04/16/25 08:27
880-56962-12	CS 221	Solid	04/15/25 11:18	04/16/25 08:27
880-56962-13	CS 224	Solid	04/15/25 11:19	04/16/25 08:27
880-56962-15	CS 230	Solid	04/15/25 11:28	04/16/25 08:27
880-56962-16	CS 234	Solid	04/15/25 11:30	04/16/25 08:27
880-56962-17	CS 189	Solid	04/15/25 12:28	04/16/25 08:27
880-56962-18	CS 192	Solid	04/15/25 12:29	04/16/25 08:27
880-56962-19	CS 195	Solid	04/15/25 12:22	04/16/25 08:27

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

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

880-56962 Chain of Custody

www.xenco.com Page 1 of 2

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

Work Order Comments

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

Project Name:	Flathead 25 FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	030383001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Leadin, Raphael		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-0.6
Total Containers:		Corrected Temperature:	-0.7

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Chlorides 300.0	TPH (8015)	BTEX (8021)	Sample Comments
CS 197	S	9/15/25	1216	0.5	C	1		X	X	X	
CS 198			1226								
CS 188			1214								
CS 189			1225								
CS 203			1332								
CS 187			1334								
CS 191			1340								
CS 194			1342								
CS 195			1346								

Parameters

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9/16/25 827	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-56962-1
SDG Number: Eddy County

Login Number: 56962
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Flatland FNR Frac Line
Eddy County

JOB NUMBER

880-57032-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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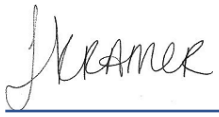
Eurofins Midland

Job Notes

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

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

Authorization



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

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Laboratory Job ID: 880-57032-1
SDG: Eddy County

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Eurofins Midland
4/23/2025

Definitions/Glossary

Client: Ensolum Job ID: 880-57032-1
Project/Site: Flatland FNR Frac Line SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 880-57032-1
Project: Flatland FNR Frac Line

Job ID: 880-57032-1 Eurofins Midland

Job Narrative
880-57032-1

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

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

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

Receipt
The samples were received on 4/17/2025 9:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: CS 236 (880-57032-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108183 and analytical batch 880-108179 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-108183 and analytical batch 880-108179 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS 232 (880-57032-27) and (890-8013-A-1-D). 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: CS 237 (880-57032-31), (CCV 880-108176/20) and (CCV 880-108176/33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108228 and analytical batch 880-108292 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-108228 and analytical batch 880-108292 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS 225 (880-57032-21), CS 226 (880-57032-22), CS 227 (880-57032-23), CS 228 (880-57032-24), CS 229 (880-57032-25) and CS 231 (880-57032-26). 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.

Diesel Range Organics
Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-108053 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-108053/57).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS 205 (880-57032-5), CS 217 (880-57032-15), CS 218 (880-57032-16), CS 219 (880-57032-17), CS 220 (880-57032-18), CS 222 (880-57032-19), CS 223 (880-57032-20), CS 225 (880-57032-21), CS 226 (880-57032-22), CS 227 (880-57032-23), CS 228

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Case Narrative

Client: Ensolum Job ID: 880-57032-1
Project: Flatland FNR Frac Line

Job ID: 880-57032-1 (Continued) Eurofins Midland

(880-57032-24), (LCS 880-108003/2-A), (LCSD 880-108003/3-A) and (MB 880-108003/1-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-108004 and analytical batch 880-108175 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 229 (880-57032-25), CS 231 (880-57032-26), CS 233 (880-57032-28), CS 235 (880-57032-29), CS 237 (880-57032-31), (LCS 880-108004/2-A), (LCSD 880-108004/3-A), (880-57032-A-25-C MS) and (880-57032-A-25-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-108004 and analytical batch 880-108175 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108004 and analytical batch 880-108175 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 200 (880-57032-1), CS 204 (880-57032-4), (880-56962-A-15-C), (880-56962-A-15-D MS) and (880-56962-A-15-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107949 and analytical batch 880-108189 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-108189 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is:(CCV 880-108189/32).

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

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

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 200

Lab Sample ID: 880-57032-1
Matrix: Solid
Date Collected: 04/16/25 10:38
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/18/25 14:56	04/18/25 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:24*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/18/25 22:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/25 17:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 17:24*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 17:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		9.92		mg/Kg			04/17/25 20:22	1

Client Sample ID: CS 201

Lab Sample ID: 880-57032-2
Matrix: Solid
Date Collected: 04/16/25 10:39
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/18/25 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:45*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 201

Lab Sample ID: 880-57032-2
Matrix: Solid
Date Collected: 04/16/25 10:39
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/18/25 22:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			04/21/25 17:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		04/17/25 11:23	04/21/25 17:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		04/17/25 11:23	04/21/25 17:39	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/17/25 11:23	04/21/25 17:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*122*		*70 - 130*	*04/17/25 11:23*	*04/21/25 17:39*	*1*
o-Terphenyl	*122*		*70 - 130*	*04/17/25 11:23*	*04/21/25 17:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.8**		9.98	mg/Kg			04/17/25 20:28	1

Client Sample ID: CS 202

Lab Sample ID: 880-57032-3
Matrix: Solid
Date Collected: 04/16/25 10:40
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/18/25 14:56	04/18/25 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:05*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/18/25 23:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/21/25 17:53	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 202

Lab Sample ID: 880-57032-3
Matrix: Solid
Date Collected: 04/16/25 10:40
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*04/17/25 11:23*	*04/21/25 17:53*	*1*
o-Terphenyl	*129*		*70 - 130*	*04/17/25 11:23*	*04/21/25 17:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.4**		10.1		mg/Kg			04/17/25 20:34	1

Client Sample ID: CS 204

Lab Sample ID: 880-57032-4
Matrix: Solid
Date Collected: 04/16/25 10:42
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/18/25 14:56	04/18/25 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:26*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/18/25 23:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/21/25 18:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/17/25 11:23	04/21/25 18:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/17/25 11:23	04/21/25 18:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/17/25 11:23	04/21/25 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 18:08*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 18:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 204

Lab Sample ID: 880-57032-4
Matrix: Solid
Date Collected: 04/16/25 10:42
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.0		10.0		mg/Kg			04/17/25 20:40	1

Client Sample ID: CS 205

Lab Sample ID: 880-57032-5
Matrix: Solid
Date Collected: 04/16/25 10:43
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00298		0.00200		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
Toluene	0.00428		0.00200		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
Ethylbenzene	0.00773	B	0.00200		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
m-Xylene & p-Xylene	0.00568		0.00401		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
o-Xylene	0.00578		0.00200		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
Xylenes, Total	0.0115		0.00401		mg/Kg		04/18/25 14:56	04/18/25 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0265		0.00401		mg/Kg			04/18/25 23:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 00:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 00:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 00:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*37*	*S1-*	*70 - 130*	*04/17/25 15:38*	*04/19/25 00:04*	*1*
o-Terphenyl	*43*	*S1-*	*70 - 130*	*04/17/25 15:38*	*04/19/25 00:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		10.0		mg/Kg			04/17/25 20:45	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 206

Lab Sample ID: 880-57032-6
Matrix: Solid
Date Collected: 04/16/25 10:44
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
Toluene	**0.00272**		0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/19/25 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:07*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/19/25 00:07	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/19/25 01:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:06*	*1*
o-Terphenyl	*97*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.8**		9.96		mg/Kg			04/17/25 20:51	1

Client Sample ID: CS 207

Lab Sample ID: 880-57032-7
Matrix: Solid
Date Collected: 04/16/25 10:47
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
Toluene	**0.00203**		0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
Ethylbenzene	**0.00251**	**B**	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:27*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 207

Lab Sample ID: 880-57032-7
Matrix: Solid
Date Collected: 04/16/25 10:47
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00454**		0.00399	mg/Kg			04/19/25 00:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/19/25 01:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/17/25 15:38	04/19/25 01:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/17/25 15:38	04/19/25 01:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/17/25 15:38	04/19/25 01:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*78*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:26*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.2**		9.96	mg/Kg			04/17/25 21:08	1

Client Sample ID: CS 208

Lab Sample ID: 880-57032-8
Matrix: Solid
Date Collected: 04/16/25 10:48
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
Toluene	**0.00316**		0.00202	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
Ethylbenzene	**0.00272**	**B**	0.00202	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/18/25 14:56	04/19/25 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:48*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00588**		0.00403	mg/Kg			04/19/25 00:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/19/25 01:47	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 208

Lab Sample ID: 880-57032-8
Matrix: Solid
Date Collected: 04/16/25 10:48
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:47*	*1*
o-Terphenyl	*92*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		10.1		mg/Kg			04/17/25 21:14	1

Client Sample ID: CS 209

Lab Sample ID: 880-57032-9
Matrix: Solid
Date Collected: 04/16/25 11:06
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/18/25 14:56*	*04/19/25 01:08*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/18/25 14:56*	*04/19/25 01:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/19/25 01:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/19/25 02:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:08*	*1*
o-Terphenyl	*95*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 209

Lab Sample ID: 880-57032-9
Matrix: Solid
Date Collected: 04/16/25 11:06
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.4		9.96		mg/Kg			04/17/25 21:31	1

Client Sample ID: CS 212

Lab Sample ID: 880-57032-10
Matrix: Solid
Date Collected: 04/16/25 11:10
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00252		0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 01:29*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 01:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/19/25 01:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/19/25 02:28	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:28*	*1*
o-Terphenyl	*89*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		9.98		mg/Kg			04/17/25 21:37	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 213

Lab Sample ID: 880-57032-11
Matrix: Solid
Date Collected: 04/16/25 11:14
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
Ethylbenzene	**0.00212**	**B**	0.00199		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
o-Xylene	**0.00267**		0.00199		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/18/25 14:56	04/19/25 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:03*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00479**		0.00398		mg/Kg			04/19/25 03:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 02:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 02:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 02:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:49*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.2**		9.96		mg/Kg			04/17/25 21:43	1

Client Sample ID: CS 214

Lab Sample ID: 880-57032-12
Matrix: Solid
Date Collected: 04/16/25 11:16
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00208**		0.00200		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:23*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 214

Lab Sample ID: 880-57032-12
Matrix: Solid
Date Collected: 04/16/25 11:16
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/19/25 03:23	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			04/19/25 03:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 03:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 03:09	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*103*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:09*	*1*
o-Terphenyl	*114*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**271**		9.98	mg/Kg			04/17/25 21:49	1

Client Sample ID: CS 215

Lab Sample ID: 880-57032-13
Matrix: Solid
Date Collected: 04/16/25 11:18
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		04/18/25 14:56	04/19/25 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:44*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			04/19/25 03:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/19/25 03:29	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 215

Lab Sample ID: 880-57032-13
Matrix: Solid
Date Collected: 04/16/25 11:18
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 03:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 03:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:29*	*1*
o-Terphenyl	*91*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.8**		10.1		mg/Kg			04/17/25 21:55	1

Client Sample ID: CS 216

Lab Sample ID: 880-57032-14
Matrix: Solid
Date Collected: 04/16/25 11:19
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/18/25 14:56	04/19/25 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:04*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/19/25 04:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/19/25 03:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 03:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 03:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:50*	*1*
o-Terphenyl	*93*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:50*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 216

Lab Sample ID: 880-57032-14
Matrix: Solid
Date Collected: 04/16/25 11:19
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		10.0		mg/Kg			04/17/25 22:00	1

Client Sample ID: CS 217

Lab Sample ID: 880-57032-15
Matrix: Solid
Date Collected: 04/16/25 11:38
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
Toluene	**0.00206**		0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:25*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/19/25 04:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 04:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 04:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 04:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*04/17/25 15:38*	*04/19/25 04:31*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/17/25 15:38*	*04/19/25 04:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.4**		10.0		mg/Kg			04/17/25 22:06	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 218

Date Collected: 04/16/25 11:40
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/18/25 14:56	04/19/25 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:46*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/19/25 04:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/19/25 04:51	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 04:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 04:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 04:51*	*1*
o-Terphenyl	*180*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 04:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.5**		9.92		mg/Kg			04/17/25 23:08	1

Client Sample ID: CS 219

Date Collected: 04/16/25 11:42
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-17
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/19/25 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:06*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 219

Lab Sample ID: 880-57032-17
Matrix: Solid
Date Collected: 04/16/25 11:42
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			04/19/25 05:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/19/25 05:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/17/25 15:38	04/19/25 05:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/17/25 15:38	04/19/25 05:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/17/25 15:38	04/19/25 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*159*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:12*	*1*
o-Terphenyl	*173*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.8**		10.1	mg/Kg			04/17/25 23:19	1

Client Sample ID: CS 220

Lab Sample ID: 880-57032-18
Matrix: Solid
Date Collected: 04/16/25 11:44
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/18/25 14:56	04/19/25 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:26*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			04/19/25 05:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/19/25 05:33	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 220

Lab Sample ID: 880-57032-18
Matrix: Solid
Date Collected: 04/16/25 11:44
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 05:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 05:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:33*	*1*
o-Terphenyl	*186*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.0**		10.0		mg/Kg			04/17/25 23:26	1

Client Sample ID: CS 222

Lab Sample ID: 880-57032-19
Matrix: Solid
Date Collected: 04/16/25 11:46
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
Toluene	**0.00746**		0.00202		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/18/25 14:56	04/19/25 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:47*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00746**		0.00403		mg/Kg			04/19/25 05:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/19/25 05:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 05:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 05:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*162*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:53*	*1*
o-Terphenyl	*172*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:53*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 222

Lab Sample ID: 880-57032-19
Matrix: Solid
Date Collected: 04/16/25 11:46
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		9.92		mg/Kg			04/17/25 23:33	1

Client Sample ID: CS 223

Lab Sample ID: 880-57032-20
Matrix: Solid
Date Collected: 04/16/25 11:48
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
Toluene	**0.00281**		0.00202		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/18/25 14:56*	*04/19/25 06:08*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/18/25 14:56*	*04/19/25 06:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/19/25 06:08	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 06:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*171*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:14*	*1*
o-Terphenyl	*181*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.1**		10.1		mg/Kg			04/17/25 23:41	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 225

Lab Sample ID: 880-57032-21
Matrix: Solid
Date Collected: 04/16/25 12:00
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/25 12:58	04/22/25 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 15:47*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*04/21/25 12:58*	*04/22/25 15:47*	*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			04/22/25 15:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 06:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:34*	*1*
o-Terphenyl	*165*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		10.0		mg/Kg			04/18/25 00:02	1

Client Sample ID: CS 226

Lab Sample ID: 880-57032-22
Matrix: Solid
Date Collected: 04/16/25 12:02
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/25 12:58	04/22/25 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 16:07*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 226

Lab Sample ID: 880-57032-22
Matrix: Solid
Date Collected: 04/16/25 12:02
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/21/25 12:58*	*04/22/25 16:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/22/25 16:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			04/19/25 06:54	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 06:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 06:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:54*	*1*
o-Terphenyl	*176*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**196**		10.1	mg/Kg			04/18/25 00:09	1

Client Sample ID: CS 227

Lab Sample ID: 880-57032-23
Matrix: Solid
Date Collected: 04/16/25 12:03
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/21/25 12:58	04/22/25 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 16:28*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*04/21/25 12:58*	*04/22/25 16:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/22/25 16:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/19/25 07:14	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 227

Lab Sample ID: 880-57032-23
Matrix: Solid
Date Collected: 04/16/25 12:03
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*160*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 07:14*	*1*
o-Terphenyl	*172*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 07:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.9**		10.0		mg/Kg			04/18/25 00:17	1

Client Sample ID: CS 228

Lab Sample ID: 880-57032-24
Matrix: Solid
Date Collected: 04/16/25 12:04
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/21/25 12:58	04/22/25 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 16:48*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/21/25 12:58*	*04/22/25 16:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/22/25 16:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 07:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*160*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 07:35*	*1*
o-Terphenyl	*171*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 07:35*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 228

Lab Sample ID: 880-57032-24
Matrix: Solid
Date Collected: 04/16/25 12:04
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.1		10.0		mg/Kg			04/18/25 08:28	1

Client Sample ID: CS 229

Lab Sample ID: 880-57032-25
Matrix: Solid
Date Collected: 04/16/25 12:06
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/25 12:58	04/22/25 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*172*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 17:09*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*04/21/25 12:58*	*04/22/25 17:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/22/25 17:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/21/25 12:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 12:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1 F1	49.8		mg/Kg		04/17/25 15:41	04/21/25 12:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 12:14*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 12:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.5		10.0		mg/Kg			04/18/25 00:26	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 231

Lab Sample ID: 880-57032-26
Matrix: Solid
Date Collected: 04/16/25 12:08
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/21/25 12:58	04/22/25 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 17:29*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*04/21/25 12:58*	*04/22/25 17:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/22/25 17:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/21/25 13:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 13:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		04/17/25 15:41	04/21/25 13:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 13:15*	*1*
o-Terphenyl	*73*		*70 - 130*	*04/17/25 15:41*	*04/21/25 13:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.8**		9.92		mg/Kg			04/18/25 00:33	1

Client Sample ID: CS 232

Lab Sample ID: 880-57032-27
Matrix: Solid
Date Collected: 04/16/25 12:10
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*04/21/25 09:09*	*04/21/25 15:24*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 232

Lab Sample ID: 880-57032-27
Matrix: Solid
Date Collected: 04/16/25 12:10
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*04/21/25 09:09*	*04/21/25 15:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			04/21/25 15:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			04/21/25 13:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		04/17/25 15:41	04/21/25 13:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		04/17/25 15:41	04/21/25 13:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		04/17/25 15:41	04/21/25 13:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*70*		*70 - 130*	*04/17/25 15:41*	*04/21/25 13:35*	*1*
o-Terphenyl	*74*		*70 - 130*	*04/17/25 15:41*	*04/21/25 13:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.3**		9.98	mg/Kg			04/18/25 00:54	1

Client Sample ID: CS 233

Lab Sample ID: 880-57032-28
Matrix: Solid
Date Collected: 04/16/25 12:12
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/21/25 09:09	04/21/25 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*04/21/25 09:09*	*04/21/25 15:44*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/21/25 09:09*	*04/21/25 15:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/21/25 15:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/21/25 13:55	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 233

Lab Sample ID: 880-57032-28
Matrix: Solid
Date Collected: 04/16/25 12:12
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:41	04/21/25 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		04/17/25 15:41	04/21/25 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:41	04/21/25 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*64*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 13:55*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 13:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94.8**		10.1		mg/Kg			04/18/25 01:02	1

Client Sample ID: CS 235

Lab Sample ID: 880-57032-29
Matrix: Solid
Date Collected: 04/16/25 12:14
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/21/25 09:09	04/21/25 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*04/21/25 09:09*	*04/21/25 16:05*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/21/25 09:09*	*04/21/25 16:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/21/25 16:05	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/21/25 14:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 14:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		04/17/25 15:41	04/21/25 14:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*04/17/25 15:41*	*04/21/25 14:15*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 14:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 235

Lab Sample ID: 880-57032-29
Matrix: Solid
Date Collected: 04/16/25 12:14
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.7		9.92		mg/Kg			04/18/25 01:23	1

Client Sample ID: CS 236

Lab Sample ID: 880-57032-30
Matrix: Solid
Date Collected: 04/16/25 12:15
Date Received: 04/17/25 09:03
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 16:56	04/21/25 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*04/18/25 16:56*	*04/21/25 14:27*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*04/18/25 16:56*	*04/21/25 14:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/21/25 14:27	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/25 14:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:41	04/21/25 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		04/17/25 15:41	04/21/25 14:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:41	04/21/25 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*04/17/25 15:41*	*04/21/25 14:36*	*1*
o-Terphenyl	*78*		*70 - 130*	*04/17/25 15:41*	*04/21/25 14:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.3		10.1		mg/Kg			04/18/25 01:30	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 237

Date Collected: 04/16/25 12:30
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-31

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/18/25 16:56	04/21/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*	*04/18/25 16:56*	*04/21/25 17:02*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*04/18/25 16:56*	*04/21/25 17:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/21/25 17:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/25 15:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:41	04/21/25 15:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		04/17/25 15:41	04/21/25 15:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:41	04/21/25 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 15:34*	*1*
o-Terphenyl	*72*		*70 - 130*	*04/17/25 15:41*	*04/21/25 15:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.9**		10.0		mg/Kg			04/18/25 01:37	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57032-1	CS 200	113	75
880-57032-1 MS	CS 200	105	107
880-57032-1 MSD	CS 200	100	110
880-57032-2	CS 201	92	86
880-57032-3	CS 202	100	99
880-57032-4	CS 204	98	90
880-57032-5	CS 205	110	100
880-57032-6	CS 206	106	100
880-57032-7	CS 207	98	95
880-57032-8	CS 208	93	81
880-57032-9	CS 209	96	94
880-57032-10	CS 212	95	95
880-57032-11	CS 213	125	74
880-57032-12	CS 214	92	96
880-57032-13	CS 215	90	95
880-57032-14	CS 216	95	83
880-57032-15	CS 217	86	86
880-57032-16	CS 218	98	90
880-57032-17	CS 219	106	98
880-57032-18	CS 220	96	101
880-57032-19	CS 222	99	84
880-57032-20	CS 223	94	99
880-57032-21	CS 225	138 S1+	117
880-57032-22	CS 226	132 S1+	110
880-57032-23	CS 227	141 S1+	119
880-57032-24	CS 228	140 S1+	112
880-57032-25	CS 229	172 S1+	122
880-57032-26	CS 231	141 S1+	116
880-57032-27	CS 232	131 S1+	105
880-57032-28	CS 233	125	104
880-57032-29	CS 235	125	108
880-57032-30	CS 236	147 S1+	78
880-57032-31	CS 237	153 S1+	81
LCS 880-108026/1-A	Lab Control Sample	135 S1+	86
LCS 880-108124/1-A	Lab Control Sample	86	111
LCS 880-108183/1-A	Lab Control Sample	118	106
LCS 880-108228/1-A	Lab Control Sample	124	109
LCSD 880-108026/2-A	Lab Control Sample Dup	144 S1+	89
LCSD 880-108124/2-A	Lab Control Sample Dup	96	112
LCSD 880-108183/2-A	Lab Control Sample Dup	125	103
LCSD 880-108228/2-A	Lab Control Sample Dup	113	110
MB 880-108026/5-A	Method Blank	145 S1+	78
MB 880-108041/5-A	Method Blank	98	71
MB 880-108124/5-A	Method Blank	97	74
MB 880-108183/5-A	Method Blank	178 S1+	97
MB 880-108228/5-A	Method Blank	179 S1+	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57032-1	CS 200	133 S1+	133 S1+
880-57032-2	CS 201	122	122
880-57032-3	CS 202	129	129
880-57032-4	CS 204	140 S1+	138 S1+
880-57032-5	CS 205	37 S1-	43 S1-
880-57032-5 MS	CS 205	79	83
880-57032-5 MSD	CS 205	78	81
880-57032-6	CS 206	86	97
880-57032-7	CS 207	78	90
880-57032-8	CS 208	84	92
880-57032-9	CS 209	87	95
880-57032-10	CS 212	84	89
880-57032-11	CS 213	97	103
880-57032-12	CS 214	103	114
880-57032-13	CS 215	81	91
880-57032-14	CS 216	82	93
880-57032-15	CS 217	87	99
880-57032-16	CS 218	161 S1+	180 S1+
880-57032-17	CS 219	159 S1+	173 S1+
880-57032-18	CS 220	166 S1+	186 S1+
880-57032-19	CS 222	162 S1+	172 S1+
880-57032-20	CS 223	171 S1+	181 S1+
880-57032-21	CS 225	151 S1+	165 S1+
880-57032-22	CS 226	158 S1+	176 S1+
880-57032-23	CS 227	160 S1+	172 S1+
880-57032-24	CS 228	160 S1+	171 S1+
880-57032-25	CS 229	66 S1-	69 S1-
880-57032-25 MS	CS 229	63 S1-	60 S1-
880-57032-25 MSD	CS 229	63 S1-	59 S1-
880-57032-26	CS 231	69 S1-	73
880-57032-27	CS 232	70	74
880-57032-28	CS 233	64 S1-	65 S1-
880-57032-29	CS 235	71	69 S1-
880-57032-30	CS 236	76	78
880-57032-31	CS 237	68 S1-	72
LCS 880-107949/2-A	Lab Control Sample	110	105
LCS 880-108003/2-A	Lab Control Sample	317 S1+	341 S1+
LCS 880-108004/2-A	Lab Control Sample	14 S1-	11 S1-
LCSD 880-107949/3-A	Lab Control Sample Dup	111	107
LCSD 880-108003/3-A	Lab Control Sample Dup	456 S1+	488 S1+
LCSD 880-108004/3-A	Lab Control Sample Dup	18 S1-	13 S1-
MB 880-107949/1-A	Method Blank	85	90
MB 880-108003/1-A	Method Blank	182 S1+	206 S1+
MB 880-108004/1-A	Method Blank	58 S1-	59 S1-

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108026/5-A
Matrix: Solid
Analysis Batch: 108176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108026

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/25 16:56	04/21/25 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*04/17/25 16:56*	*04/21/25 12:03*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*04/17/25 16:56*	*04/21/25 12:03*	*1*

Lab Sample ID: LCS 880-108026/1-A
Matrix: Solid
Analysis Batch: 108176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108026

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1056		mg/Kg		106	70 - 130		
Toluene			0.100	0.09480		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09677		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1992		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1020		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: LCSD 880-108026/2-A
Matrix: Solid
Analysis Batch: 108176

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108026

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1079		mg/Kg		108	70 - 130	2	35
Toluene			0.100	0.09979		mg/Kg		100	70 - 130	5	35
Ethylbenzene			0.100	0.1016		mg/Kg		102	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2097		mg/Kg		105	70 - 130	5	35
o-Xylene			0.100	0.1080		mg/Kg		108	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: MB 880-108041/5-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108041

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/25 21:39	04/18/25 11:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/25 21:39	04/18/25 11:04	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

Lab Sample ID: MB 880-108041/5-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108041

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/25 21:39	04/18/25 11:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/25 21:39	04/18/25 11:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/25 21:39	04/18/25 11:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/25 21:39	04/18/25 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/17/25 21:39*	*04/18/25 11:04*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*04/17/25 21:39*	*04/18/25 11:04*	*1*

Lab Sample ID: MB 880-108124/5-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108124

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
Ethylbenzene	0.002165		0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/18/25 22:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:03*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:03*	*1*

Lab Sample ID: LCS 880-108124/1-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108124

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1172		mg/Kg		117	70 - 130		
Toluene			0.100	0.1114		mg/Kg		111	70 - 130		
Ethylbenzene			0.100	0.1101		mg/Kg		110	70 - 130		
m-Xylene & p-Xylene			0.200	0.1874		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.1029		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-108124/2-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108124

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1241		mg/Kg		124	70 - 130	6	35
Toluene			0.100	0.1153		mg/Kg		115	70 - 130	3	35
Ethylbenzene			0.100	0.1104		mg/Kg		110	70 - 130	0	35

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-108124/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108056 — **Prep Batch: 108124**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1894		mg/Kg		95	70 - 130	1	35
o-Xylene			0.100	0.1047		mg/Kg		105	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-57032-1 MS — **Client Sample ID: CS 200**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108056 — **Prep Batch: 108124**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08603		mg/Kg		84	70 - 130
Toluene	<0.00201	U	0.100	0.08723		mg/Kg		87	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09865		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1758		mg/Kg		88	70 - 130
o-Xylene	<0.00201	U	0.100	0.09772		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-57032-1 MSD — **Client Sample ID: CS 200**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108056 — **Prep Batch: 108124**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09211		mg/Kg		90	70 - 130	7	35
Toluene	<0.00201	U	0.100	0.07708		mg/Kg		77	70 - 130	12	35
Ethylbenzene	<0.00201	U	0.100	0.08666		mg/Kg		87	70 - 130	13	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1483		mg/Kg		74	70 - 130	17	35
o-Xylene	<0.00201	U	0.100	0.08333		mg/Kg		83	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 880-108183/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108179 — **Prep Batch: 108183**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 13:13	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130	04/21/25 09:09	04/21/25 13:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/21/25 09:09	04/21/25 13:13	1

Lab Sample ID: LCS 880-108183/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108179 — **Prep Batch: 108183**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09519		mg/Kg		95	70 - 130
Toluene	0.100	0.08629		mg/Kg		86	70 - 130
Ethylbenzene	0.100	0.08673		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.2055		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1038		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-108183/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108179 — **Prep Batch: 108183**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09904		mg/Kg		99	70 - 130	4	35
Toluene	0.100	0.08132		mg/Kg		81	70 - 130	6	35
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	18	35
m-Xylene & p-Xylene	0.200	0.2132		mg/Kg		107	70 - 130	4	35
o-Xylene	0.100	0.1043		mg/Kg		104	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-108228/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108292 — **Prep Batch: 108228**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/21/25 12:58	04/22/25 14:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/21/25 12:58	04/22/25 14:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/21/25 12:58	04/22/25 14:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/21/25 12:58	04/22/25 14:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/21/25 12:58	04/22/25 14:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/21/25 12:58	04/22/25 14:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130	04/21/25 12:58	04/22/25 14:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/21/25 12:58	04/22/25 14:17	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-108228/1-A
Matrix: Solid
Analysis Batch: 108292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1047		mg/Kg		105	70 - 130		
Toluene			0.100	0.09245		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09733		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.2172		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1104		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-108228/2-A
Matrix: Solid
Analysis Batch: 108292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108228

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09622		mg/Kg		96	70 - 130	8	35
Toluene			0.100	0.09541		mg/Kg		95	70 - 130	3	35
Ethylbenzene			0.100	0.09476		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2000		mg/Kg		100	70 - 130	8	35
o-Xylene			0.100	0.09915		mg/Kg		99	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

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

Lab Sample ID: MB 880-107949/1-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107949

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/17/25 11:23*	*04/21/25 09:44*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/17/25 11:23*	*04/21/25 09:44*	*1*

Lab Sample ID: LCS 880-107949/2-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	742.9		mg/Kg		74	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

Lab Sample ID: LCS 880-107949/2-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	950.7		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-107949/3-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107949

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	791.1		mg/Kg		79	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	976.2		mg/Kg		98	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: MB 880-108003/1-A
Matrix: Solid
Analysis Batch: 108053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108003

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/18/25 23:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/18/25 23:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/18/25 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*182*	*S1+*	*70 - 130*	*04/17/25 15:35*	*04/18/25 23:03*	*1*
o-Terphenyl	*206*	*S1+*	*70 - 130*	*04/17/25 15:35*	*04/18/25 23:03*	*1*

Lab Sample ID: LCS 880-108003/2-A
Matrix: Solid
Analysis Batch: 108053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	895.1		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1065		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*317*	*S1+*	*70 - 130*
o-Terphenyl	*341*	*S1+*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

Lab Sample ID: LCSD 880-108003/3-A
Matrix: Solid
Analysis Batch: 108053

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108003

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	909.4		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1118		mg/Kg		112	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*456*	*S1+*	*70 - 130*
o-Terphenyl	*488*	*S1+*	*70 - 130*

Lab Sample ID: 880-57032-5 MS
Matrix: Solid
Analysis Batch: 108053

Client Sample ID: CS 205
Prep Type: Total/NA
Prep Batch: 108003

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	756.0		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	811.5		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 880-57032-5 MSD
Matrix: Solid
Analysis Batch: 108053

Client Sample ID: CS 205
Prep Type: Total/NA
Prep Batch: 108003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	753.9		mg/Kg		76	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	801.9		mg/Kg		81	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: MB 880-108004/1-A
Matrix: Solid
Analysis Batch: 108175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108004

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/21/25 08:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/21/25 08:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/21/25 08:56	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

Lab Sample ID: MB 880-108004/1-A
Matrix: Solid
Analysis Batch: 108175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108004

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130	04/17/25 15:35	04/21/25 08:56	1
o-Terphenyl	59	S1-	70 - 130	04/17/25 15:35	04/21/25 08:56	1

Lab Sample ID: LCS 880-108004/2-A
Matrix: Solid
Analysis Batch: 108175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108004

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	834.9		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	838.3		mg/Kg		84	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	14	S1-	70 - 130
o-Terphenyl	11	S1-	70 - 130

Lab Sample ID: LCSD 880-108004/3-A
Matrix: Solid
Analysis Batch: 108175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108004

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	980.2		mg/Kg		98	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1035	*1	mg/Kg		103	70 - 130	21	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	18	S1-	70 - 130
o-Terphenyl	13	S1-	70 - 130

Lab Sample ID: 880-57032-25 MS
Matrix: Solid
Analysis Batch: 108175

Client Sample ID: CS 229
Prep Type: Total/NA
Prep Batch: 108004

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	945.2		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U *1 F1	998	621.1	F1	mg/Kg		61	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	63	S1-	70 - 130
o-Terphenyl	60	S1-	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

Lab Sample ID: 880-57032-25 MSD — **Client Sample ID: CS 229**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108175 — **Prep Batch: 108004**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	956.3		mg/Kg		96	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U *1 F1	998	618.1	F1	mg/Kg		60	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*63*	*S1-*	*70 - 130*
o-Terphenyl	*59*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107986/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/17/25 19:13	1

Lab Sample ID: LCS 880-107986/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-107986/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.0		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-57032-6 MS — **Client Sample ID: CS 206**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	84.8		249	347.9		mg/Kg		106	90 - 110		

Lab Sample ID: 880-57032-6 MSD — **Client Sample ID: CS 206**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	84.8		249	348.0		mg/Kg		106	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-107987/1-A
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/17/25 22:47	1

Lab Sample ID: LCS 880-107987/2-A
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.4		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-107987/3-A
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	239.1		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-57032-16 MS
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: CS 218
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	92.5		248	331.3		mg/Kg		96	90 - 110		

Lab Sample ID: 880-57032-16 MSD
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: CS 218
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	92.5		248	348.6		mg/Kg		103	90 - 110	5	20

Lab Sample ID: 880-57032-26 MS
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: CS 231
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	80.8		248	353.8		mg/Kg		110	90 - 110		

Lab Sample ID: 880-57032-26 MSD
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: CS 231
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.8		248	352.0		mg/Kg		109	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC VOA

Prep Batch: 108026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-30	CS 236	Total/NA	Solid	5035	
880-57032-31	CS 237	Total/NA	Solid	5035	
MB 880-108026/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108026/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108026/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 108041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108041/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 108056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	8021B	108124
880-57032-2	CS 201	Total/NA	Solid	8021B	108124
880-57032-3	CS 202	Total/NA	Solid	8021B	108124
880-57032-4	CS 204	Total/NA	Solid	8021B	108124
880-57032-5	CS 205	Total/NA	Solid	8021B	108124
880-57032-6	CS 206	Total/NA	Solid	8021B	108124
880-57032-7	CS 207	Total/NA	Solid	8021B	108124
880-57032-8	CS 208	Total/NA	Solid	8021B	108124
880-57032-9	CS 209	Total/NA	Solid	8021B	108124
880-57032-10	CS 212	Total/NA	Solid	8021B	108124
880-57032-11	CS 213	Total/NA	Solid	8021B	108124
880-57032-12	CS 214	Total/NA	Solid	8021B	108124
880-57032-13	CS 215	Total/NA	Solid	8021B	108124
880-57032-14	CS 216	Total/NA	Solid	8021B	108124
880-57032-15	CS 217	Total/NA	Solid	8021B	108124
880-57032-16	CS 218	Total/NA	Solid	8021B	108124
880-57032-17	CS 219	Total/NA	Solid	8021B	108124
880-57032-18	CS 220	Total/NA	Solid	8021B	108124
880-57032-19	CS 222	Total/NA	Solid	8021B	108124
880-57032-20	CS 223	Total/NA	Solid	8021B	108124
MB 880-108041/5-A	Method Blank	Total/NA	Solid	8021B	108041
MB 880-108124/5-A	Method Blank	Total/NA	Solid	8021B	108124
LCS 880-108124/1-A	Lab Control Sample	Total/NA	Solid	8021B	108124
LCSD 880-108124/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108124
880-57032-1 MS	CS 200	Total/NA	Solid	8021B	108124
880-57032-1 MSD	CS 200	Total/NA	Solid	8021B	108124

Prep Batch: 108124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	5035	
880-57032-2	CS 201	Total/NA	Solid	5035	
880-57032-3	CS 202	Total/NA	Solid	5035	
880-57032-4	CS 204	Total/NA	Solid	5035	
880-57032-5	CS 205	Total/NA	Solid	5035	
880-57032-6	CS 206	Total/NA	Solid	5035	
880-57032-7	CS 207	Total/NA	Solid	5035	
880-57032-8	CS 208	Total/NA	Solid	5035	
880-57032-9	CS 209	Total/NA	Solid	5035	
880-57032-10	CS 212	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 108124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-11	CS 213	Total/NA	Solid	5035	
880-57032-12	CS 214	Total/NA	Solid	5035	
880-57032-13	CS 215	Total/NA	Solid	5035	
880-57032-14	CS 216	Total/NA	Solid	5035	
880-57032-15	CS 217	Total/NA	Solid	5035	
880-57032-16	CS 218	Total/NA	Solid	5035	
880-57032-17	CS 219	Total/NA	Solid	5035	
880-57032-18	CS 220	Total/NA	Solid	5035	
880-57032-19	CS 222	Total/NA	Solid	5035	
880-57032-20	CS 223	Total/NA	Solid	5035	
MB 880-108124/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108124/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108124/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57032-1 MS	CS 200	Total/NA	Solid	5035	
880-57032-1 MSD	CS 200	Total/NA	Solid	5035	

Analysis Batch: 108176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-30	CS 236	Total/NA	Solid	8021B	108026
880-57032-31	CS 237	Total/NA	Solid	8021B	108026
MB 880-108026/5-A	Method Blank	Total/NA	Solid	8021B	108026
LCS 880-108026/1-A	Lab Control Sample	Total/NA	Solid	8021B	108026
LCSD 880-108026/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108026

Analysis Batch: 108179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-27	CS 232	Total/NA	Solid	8021B	108183
880-57032-28	CS 233	Total/NA	Solid	8021B	108183
880-57032-29	CS 235	Total/NA	Solid	8021B	108183
MB 880-108183/5-A	Method Blank	Total/NA	Solid	8021B	108183
LCS 880-108183/1-A	Lab Control Sample	Total/NA	Solid	8021B	108183
LCSD 880-108183/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108183

Prep Batch: 108183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-27	CS 232	Total/NA	Solid	5035	
880-57032-28	CS 233	Total/NA	Solid	5035	
880-57032-29	CS 235	Total/NA	Solid	5035	
MB 880-108183/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108183/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108183/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 108228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-21	CS 225	Total/NA	Solid	5035	
880-57032-22	CS 226	Total/NA	Solid	5035	
880-57032-23	CS 227	Total/NA	Solid	5035	
880-57032-24	CS 228	Total/NA	Solid	5035	
880-57032-25	CS 229	Total/NA	Solid	5035	
880-57032-26	CS 231	Total/NA	Solid	5035	
MB 880-108228/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 108228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-108228/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108228/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 108234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	Total BTEX	
880-57032-2	CS 201	Total/NA	Solid	Total BTEX	
880-57032-3	CS 202	Total/NA	Solid	Total BTEX	
880-57032-4	CS 204	Total/NA	Solid	Total BTEX	
880-57032-5	CS 205	Total/NA	Solid	Total BTEX	
880-57032-6	CS 206	Total/NA	Solid	Total BTEX	
880-57032-7	CS 207	Total/NA	Solid	Total BTEX	
880-57032-8	CS 208	Total/NA	Solid	Total BTEX	
880-57032-9	CS 209	Total/NA	Solid	Total BTEX	
880-57032-10	CS 212	Total/NA	Solid	Total BTEX	
880-57032-11	CS 213	Total/NA	Solid	Total BTEX	
880-57032-12	CS 214	Total/NA	Solid	Total BTEX	
880-57032-13	CS 215	Total/NA	Solid	Total BTEX	
880-57032-14	CS 216	Total/NA	Solid	Total BTEX	
880-57032-15	CS 217	Total/NA	Solid	Total BTEX	
880-57032-16	CS 218	Total/NA	Solid	Total BTEX	
880-57032-17	CS 219	Total/NA	Solid	Total BTEX	
880-57032-18	CS 220	Total/NA	Solid	Total BTEX	
880-57032-19	CS 222	Total/NA	Solid	Total BTEX	
880-57032-20	CS 223	Total/NA	Solid	Total BTEX	
880-57032-21	CS 225	Total/NA	Solid	Total BTEX	
880-57032-22	CS 226	Total/NA	Solid	Total BTEX	
880-57032-23	CS 227	Total/NA	Solid	Total BTEX	
880-57032-24	CS 228	Total/NA	Solid	Total BTEX	
880-57032-25	CS 229	Total/NA	Solid	Total BTEX	
880-57032-26	CS 231	Total/NA	Solid	Total BTEX	
880-57032-27	CS 232	Total/NA	Solid	Total BTEX	
880-57032-28	CS 233	Total/NA	Solid	Total BTEX	
880-57032-29	CS 235	Total/NA	Solid	Total BTEX	
880-57032-30	CS 236	Total/NA	Solid	Total BTEX	
880-57032-31	CS 237	Total/NA	Solid	Total BTEX	

Analysis Batch: 108292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-21	CS 225	Total/NA	Solid	8021B	108228
880-57032-22	CS 226	Total/NA	Solid	8021B	108228
880-57032-23	CS 227	Total/NA	Solid	8021B	108228
880-57032-24	CS 228	Total/NA	Solid	8021B	108228
880-57032-25	CS 229	Total/NA	Solid	8021B	108228
880-57032-26	CS 231	Total/NA	Solid	8021B	108228
MB 880-108228/5-A	Method Blank	Total/NA	Solid	8021B	108228
LCS 880-108228/1-A	Lab Control Sample	Total/NA	Solid	8021B	108228
LCSD 880-108228/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108228

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 107949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	8015NM Prep	
880-57032-2	CS 201	Total/NA	Solid	8015NM Prep	
880-57032-3	CS 202	Total/NA	Solid	8015NM Prep	
880-57032-4	CS 204	Total/NA	Solid	8015NM Prep	
MB 880-107949/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107949/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 108003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-5	CS 205	Total/NA	Solid	8015NM Prep	
880-57032-6	CS 206	Total/NA	Solid	8015NM Prep	
880-57032-7	CS 207	Total/NA	Solid	8015NM Prep	
880-57032-8	CS 208	Total/NA	Solid	8015NM Prep	
880-57032-9	CS 209	Total/NA	Solid	8015NM Prep	
880-57032-10	CS 212	Total/NA	Solid	8015NM Prep	
880-57032-11	CS 213	Total/NA	Solid	8015NM Prep	
880-57032-12	CS 214	Total/NA	Solid	8015NM Prep	
880-57032-13	CS 215	Total/NA	Solid	8015NM Prep	
880-57032-14	CS 216	Total/NA	Solid	8015NM Prep	
880-57032-15	CS 217	Total/NA	Solid	8015NM Prep	
880-57032-16	CS 218	Total/NA	Solid	8015NM Prep	
880-57032-17	CS 219	Total/NA	Solid	8015NM Prep	
880-57032-18	CS 220	Total/NA	Solid	8015NM Prep	
880-57032-19	CS 222	Total/NA	Solid	8015NM Prep	
880-57032-20	CS 223	Total/NA	Solid	8015NM Prep	
880-57032-21	CS 225	Total/NA	Solid	8015NM Prep	
880-57032-22	CS 226	Total/NA	Solid	8015NM Prep	
880-57032-23	CS 227	Total/NA	Solid	8015NM Prep	
880-57032-24	CS 228	Total/NA	Solid	8015NM Prep	
MB 880-108003/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108003/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57032-5 MS	CS 205	Total/NA	Solid	8015NM Prep	
880-57032-5 MSD	CS 205	Total/NA	Solid	8015NM Prep	

Prep Batch: 108004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-25	CS 229	Total/NA	Solid	8015NM Prep	
880-57032-26	CS 231	Total/NA	Solid	8015NM Prep	
880-57032-27	CS 232	Total/NA	Solid	8015NM Prep	
880-57032-28	CS 233	Total/NA	Solid	8015NM Prep	
880-57032-29	CS 235	Total/NA	Solid	8015NM Prep	
880-57032-30	CS 236	Total/NA	Solid	8015NM Prep	
880-57032-31	CS 237	Total/NA	Solid	8015NM Prep	
MB 880-108004/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108004/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108004/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57032-25 MS	CS 229	Total/NA	Solid	8015NM Prep	
880-57032-25 MSD	CS 229	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 108053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-5	CS 205	Total/NA	Solid	8015B NM	108003
880-57032-6	CS 206	Total/NA	Solid	8015B NM	108003
880-57032-7	CS 207	Total/NA	Solid	8015B NM	108003
880-57032-8	CS 208	Total/NA	Solid	8015B NM	108003
880-57032-9	CS 209	Total/NA	Solid	8015B NM	108003
880-57032-10	CS 212	Total/NA	Solid	8015B NM	108003
880-57032-11	CS 213	Total/NA	Solid	8015B NM	108003
880-57032-12	CS 214	Total/NA	Solid	8015B NM	108003
880-57032-13	CS 215	Total/NA	Solid	8015B NM	108003
880-57032-14	CS 216	Total/NA	Solid	8015B NM	108003
880-57032-15	CS 217	Total/NA	Solid	8015B NM	108003
880-57032-16	CS 218	Total/NA	Solid	8015B NM	108003
880-57032-17	CS 219	Total/NA	Solid	8015B NM	108003
880-57032-18	CS 220	Total/NA	Solid	8015B NM	108003
880-57032-19	CS 222	Total/NA	Solid	8015B NM	108003
880-57032-20	CS 223	Total/NA	Solid	8015B NM	108003
880-57032-21	CS 225	Total/NA	Solid	8015B NM	108003
880-57032-22	CS 226	Total/NA	Solid	8015B NM	108003
880-57032-23	CS 227	Total/NA	Solid	8015B NM	108003
880-57032-24	CS 228	Total/NA	Solid	8015B NM	108003
MB 880-108003/1-A	Method Blank	Total/NA	Solid	8015B NM	108003
LCS 880-108003/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108003
LCSD 880-108003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108003
880-57032-5 MS	CS 205	Total/NA	Solid	8015B NM	108003
880-57032-5 MSD	CS 205	Total/NA	Solid	8015B NM	108003

Analysis Batch: 108175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-25	CS 229	Total/NA	Solid	8015B NM	108004
880-57032-26	CS 231	Total/NA	Solid	8015B NM	108004
880-57032-27	CS 232	Total/NA	Solid	8015B NM	108004
880-57032-28	CS 233	Total/NA	Solid	8015B NM	108004
880-57032-29	CS 235	Total/NA	Solid	8015B NM	108004
880-57032-30	CS 236	Total/NA	Solid	8015B NM	108004
880-57032-31	CS 237	Total/NA	Solid	8015B NM	108004
MB 880-108004/1-A	Method Blank	Total/NA	Solid	8015B NM	108004
LCS 880-108004/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108004
LCSD 880-108004/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108004
880-57032-25 MS	CS 229	Total/NA	Solid	8015B NM	108004
880-57032-25 MSD	CS 229	Total/NA	Solid	8015B NM	108004

Analysis Batch: 108189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	8015B NM	107949
880-57032-2	CS 201	Total/NA	Solid	8015B NM	107949
880-57032-3	CS 202	Total/NA	Solid	8015B NM	107949
880-57032-4	CS 204	Total/NA	Solid	8015B NM	107949
MB 880-107949/1-A	Method Blank	Total/NA	Solid	8015B NM	107949
LCS 880-107949/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107949
LCSD 880-107949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107949

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 108201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	8015 NM	
880-57032-2	CS 201	Total/NA	Solid	8015 NM	
880-57032-3	CS 202	Total/NA	Solid	8015 NM	
880-57032-4	CS 204	Total/NA	Solid	8015 NM	
880-57032-5	CS 205	Total/NA	Solid	8015 NM	
880-57032-6	CS 206	Total/NA	Solid	8015 NM	
880-57032-7	CS 207	Total/NA	Solid	8015 NM	
880-57032-8	CS 208	Total/NA	Solid	8015 NM	
880-57032-9	CS 209	Total/NA	Solid	8015 NM	
880-57032-10	CS 212	Total/NA	Solid	8015 NM	
880-57032-11	CS 213	Total/NA	Solid	8015 NM	
880-57032-12	CS 214	Total/NA	Solid	8015 NM	
880-57032-13	CS 215	Total/NA	Solid	8015 NM	
880-57032-14	CS 216	Total/NA	Solid	8015 NM	
880-57032-15	CS 217	Total/NA	Solid	8015 NM	
880-57032-16	CS 218	Total/NA	Solid	8015 NM	
880-57032-17	CS 219	Total/NA	Solid	8015 NM	
880-57032-18	CS 220	Total/NA	Solid	8015 NM	
880-57032-19	CS 222	Total/NA	Solid	8015 NM	
880-57032-20	CS 223	Total/NA	Solid	8015 NM	
880-57032-21	CS 225	Total/NA	Solid	8015 NM	
880-57032-22	CS 226	Total/NA	Solid	8015 NM	
880-57032-23	CS 227	Total/NA	Solid	8015 NM	
880-57032-24	CS 228	Total/NA	Solid	8015 NM	
880-57032-25	CS 229	Total/NA	Solid	8015 NM	
880-57032-26	CS 231	Total/NA	Solid	8015 NM	
880-57032-27	CS 232	Total/NA	Solid	8015 NM	
880-57032-28	CS 233	Total/NA	Solid	8015 NM	
880-57032-29	CS 235	Total/NA	Solid	8015 NM	
880-57032-30	CS 236	Total/NA	Solid	8015 NM	
880-57032-31	CS 237	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 107986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Soluble	Solid	DI Leach	
880-57032-2	CS 201	Soluble	Solid	DI Leach	
880-57032-3	CS 202	Soluble	Solid	DI Leach	
880-57032-4	CS 204	Soluble	Solid	DI Leach	
880-57032-5	CS 205	Soluble	Solid	DI Leach	
880-57032-6	CS 206	Soluble	Solid	DI Leach	
880-57032-7	CS 207	Soluble	Solid	DI Leach	
880-57032-8	CS 208	Soluble	Solid	DI Leach	
880-57032-9	CS 209	Soluble	Solid	DI Leach	
880-57032-10	CS 212	Soluble	Solid	DI Leach	
880-57032-11	CS 213	Soluble	Solid	DI Leach	
880-57032-12	CS 214	Soluble	Solid	DI Leach	
880-57032-13	CS 215	Soluble	Solid	DI Leach	
880-57032-14	CS 216	Soluble	Solid	DI Leach	
880-57032-15	CS 217	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 107986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-107986/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107986/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107986/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57032-6 MS	CS 206	Soluble	Solid	DI Leach	
880-57032-6 MSD	CS 206	Soluble	Solid	DI Leach	

Leach Batch: 107987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-16	CS 218	Soluble	Solid	DI Leach	
880-57032-17	CS 219	Soluble	Solid	DI Leach	
880-57032-18	CS 220	Soluble	Solid	DI Leach	
880-57032-19	CS 222	Soluble	Solid	DI Leach	
880-57032-20	CS 223	Soluble	Solid	DI Leach	
880-57032-21	CS 225	Soluble	Solid	DI Leach	
880-57032-22	CS 226	Soluble	Solid	DI Leach	
880-57032-23	CS 227	Soluble	Solid	DI Leach	
880-57032-24	CS 228	Soluble	Solid	DI Leach	
880-57032-25	CS 229	Soluble	Solid	DI Leach	
880-57032-26	CS 231	Soluble	Solid	DI Leach	
880-57032-27	CS 232	Soluble	Solid	DI Leach	
880-57032-28	CS 233	Soluble	Solid	DI Leach	
880-57032-29	CS 235	Soluble	Solid	DI Leach	
880-57032-30	CS 236	Soluble	Solid	DI Leach	
880-57032-31	CS 237	Soluble	Solid	DI Leach	
MB 880-107987/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107987/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107987/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57032-16 MS	CS 218	Soluble	Solid	DI Leach	
880-57032-16 MSD	CS 218	Soluble	Solid	DI Leach	
880-57032-26 MS	CS 231	Soluble	Solid	DI Leach	
880-57032-26 MSD	CS 231	Soluble	Solid	DI Leach	

Analysis Batch: 108014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Soluble	Solid	300.0	107986
880-57032-2	CS 201	Soluble	Solid	300.0	107986
880-57032-3	CS 202	Soluble	Solid	300.0	107986
880-57032-4	CS 204	Soluble	Solid	300.0	107986
880-57032-5	CS 205	Soluble	Solid	300.0	107986
880-57032-6	CS 206	Soluble	Solid	300.0	107986
880-57032-7	CS 207	Soluble	Solid	300.0	107986
880-57032-8	CS 208	Soluble	Solid	300.0	107986
880-57032-9	CS 209	Soluble	Solid	300.0	107986
880-57032-10	CS 212	Soluble	Solid	300.0	107986
880-57032-11	CS 213	Soluble	Solid	300.0	107986
880-57032-12	CS 214	Soluble	Solid	300.0	107986
880-57032-13	CS 215	Soluble	Solid	300.0	107986
880-57032-14	CS 216	Soluble	Solid	300.0	107986
880-57032-15	CS 217	Soluble	Solid	300.0	107986
MB 880-107986/1-A	Method Blank	Soluble	Solid	300.0	107986
LCS 880-107986/2-A	Lab Control Sample	Soluble	Solid	300.0	107986

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 108014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-107986/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107986
880-57032-6 MS	CS 206	Soluble	Solid	300.0	107986
880-57032-6 MSD	CS 206	Soluble	Solid	300.0	107986

Analysis Batch: 108017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-16	CS 218	Soluble	Solid	300.0	107987
880-57032-17	CS 219	Soluble	Solid	300.0	107987
880-57032-18	CS 220	Soluble	Solid	300.0	107987
880-57032-19	CS 222	Soluble	Solid	300.0	107987
880-57032-20	CS 223	Soluble	Solid	300.0	107987
880-57032-21	CS 225	Soluble	Solid	300.0	107987
880-57032-22	CS 226	Soluble	Solid	300.0	107987
880-57032-23	CS 227	Soluble	Solid	300.0	107987
880-57032-24	CS 228	Soluble	Solid	300.0	107987
880-57032-25	CS 229	Soluble	Solid	300.0	107987
880-57032-26	CS 231	Soluble	Solid	300.0	107987
880-57032-27	CS 232	Soluble	Solid	300.0	107987
880-57032-28	CS 233	Soluble	Solid	300.0	107987
880-57032-29	CS 235	Soluble	Solid	300.0	107987
880-57032-30	CS 236	Soluble	Solid	300.0	107987
880-57032-31	CS 237	Soluble	Solid	300.0	107987
MB 880-107987/1-A	Method Blank	Soluble	Solid	300.0	107987
LCS 880-107987/2-A	Lab Control Sample	Soluble	Solid	300.0	107987
LCSD 880-107987/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107987
880-57032-16 MS	CS 218	Soluble	Solid	300.0	107987
880-57032-16 MSD	CS 218	Soluble	Solid	300.0	107987
880-57032-26 MS	CS 231	Soluble	Solid	300.0	107987
880-57032-26 MSD	CS 231	Soluble	Solid	300.0	107987

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 200

Lab Sample ID: 880-57032-1
Matrix: Solid
Date Collected: 04/16/25 10:38
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 22:24
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 22:24
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 17:24
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 17:24
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:22

Client Sample ID: CS 201

Lab Sample ID: 880-57032-2
Matrix: Solid
Date Collected: 04/16/25 10:39
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 22:45
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 22:45
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 17:39
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 17:39
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:28

Client Sample ID: CS 202

Lab Sample ID: 880-57032-3
Matrix: Solid
Date Collected: 04/16/25 10:40
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 23:05
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 23:05
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 17:53
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 17:53
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:34

Client Sample ID: CS 204

Lab Sample ID: 880-57032-4
Matrix: Solid
Date Collected: 04/16/25 10:42
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 23:26
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 23:26

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 204

Date Collected: 04/16/25 10:42
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 18:08
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 18:08
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:40

Client Sample ID: CS 205

Date Collected: 04/16/25 10:43
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 23:46
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 23:46
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 00:04
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 00:04
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:45

Client Sample ID: CS 206

Date Collected: 04/16/25 10:44
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 00:07
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 00:07
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 01:06
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 01:06
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:51

Client Sample ID: CS 207

Date Collected: 04/16/25 10:47
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 00:27
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 00:27
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 01:26
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 01:26

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 207

Lab Sample ID: 880-57032-7
Matrix: Solid
Date Collected: 04/16/25 10:47
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:08

Client Sample ID: CS 208

Lab Sample ID: 880-57032-8
Matrix: Solid
Date Collected: 04/16/25 10:48
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 00:48
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 00:48
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 01:47
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 01:47
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:14

Client Sample ID: CS 209

Lab Sample ID: 880-57032-9
Matrix: Solid
Date Collected: 04/16/25 11:06
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 01:08
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 01:08
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 02:08
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 02:08
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:31

Client Sample ID: CS 212

Lab Sample ID: 880-57032-10
Matrix: Solid
Date Collected: 04/16/25 11:10
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 01:29
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 01:29
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 02:28
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 02:28
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:37

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 213
Date Collected: 04/16/25 11:14
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 03:03
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 03:03
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 02:49
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 02:49
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:43

Client Sample ID: CS 214
Date Collected: 04/16/25 11:16
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 03:23
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 03:23
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 03:09
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 03:09
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:49

Client Sample ID: CS 215
Date Collected: 04/16/25 11:18
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 03:44
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 03:44
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 03:29
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 03:29
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:55

Client Sample ID: CS 216
Date Collected: 04/16/25 11:19
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 04:04
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 04:04

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Lab Chronicle

Client: Ensolum
Job ID: 880-57032-1
Project/Site: Flatland FNR Frac Line
SDG: Eddy County

Client Sample ID: CS 216
Lab Sample ID: 880-57032-14
Date Collected: 04/16/25 11:19
Matrix: Solid
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 03:50
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 03:50
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 22:00

Client Sample ID: CS 217
Lab Sample ID: 880-57032-15
Date Collected: 04/16/25 11:38
Matrix: Solid
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 04:25
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 04:25
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 04:31
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 04:31
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 22:06

Client Sample ID: CS 218
Lab Sample ID: 880-57032-16
Date Collected: 04/16/25 11:40
Matrix: Solid
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 04:46
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 04:46
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 04:51
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 04:51
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:08

Client Sample ID: CS 219
Lab Sample ID: 880-57032-17
Date Collected: 04/16/25 11:42
Matrix: Solid
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 05:06
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 05:06
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 05:12
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 05:12

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 219
Date Collected: 04/16/25 11:42
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:19

Client Sample ID: CS 220
Date Collected: 04/16/25 11:44
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 05:26
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 05:26
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 05:33
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 05:33
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:26

Client Sample ID: CS 222
Date Collected: 04/16/25 11:46
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 05:47
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 05:47
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 05:53
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 05:53
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:33

Client Sample ID: CS 223
Date Collected: 04/16/25 11:48
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 06:08
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 06:08
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 06:14
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 06:14
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:41

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 225
Date Collected: 04/16/25 12:00
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 15:47
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 15:47
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 06:34
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 06:34
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:02

Client Sample ID: CS 226
Date Collected: 04/16/25 12:02
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 16:07
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 16:07
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 06:54
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 06:54
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:09

Client Sample ID: CS 227
Date Collected: 04/16/25 12:03
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 16:28
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 16:28
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 07:14
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 07:14
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:17

Client Sample ID: CS 228
Date Collected: 04/16/25 12:04
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 16:48
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 16:48

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 228
Date Collected: 04/16/25 12:04
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 07:35
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 07:35
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 08:28

Client Sample ID: CS 229
Date Collected: 04/16/25 12:06
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 17:09
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 17:09
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 12:14
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 12:14
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:26

Client Sample ID: CS 231
Date Collected: 04/16/25 12:08
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 17:29
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 17:29
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 13:15
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 13:15
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:33

Client Sample ID: CS 232
Date Collected: 04/16/25 12:10
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108183	AA	EET MID	04/21/25 09:09
Total/NA	Analysis	8021B		1	108179	MNR	EET MID	04/21/25 15:24
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 15:24
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 13:35
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 13:35

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 232
Date Collected: 04/16/25 12:10
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:54

Client Sample ID: CS 233
Date Collected: 04/16/25 12:12
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108183	AA	EET MID	04/21/25 09:09
Total/NA	Analysis	8021B		1	108179	MNR	EET MID	04/21/25 15:44
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 15:44
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 13:55
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 13:55
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 01:02

Client Sample ID: CS 235
Date Collected: 04/16/25 12:14
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108183	AA	EET MID	04/21/25 09:09
Total/NA	Analysis	8021B		1	108179	MNR	EET MID	04/21/25 16:05
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 16:05
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 14:15
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 14:15
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 01:23

Client Sample ID: CS 236
Date Collected: 04/16/25 12:15
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108026	MNR	EET MID	04/18/25 16:56
Total/NA	Analysis	8021B		1	108176	MNR	EET MID	04/21/25 14:27
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 14:27
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 14:36
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 14:36
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 01:30

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 237

Date Collected: 04/16/25 12:30
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108026	MNR	EET MID	04/18/25 16:56
Total/NA	Analysis	8021B		1	108176	MNR	EET MID	04/21/25 17:02
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 17:02
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 15:34
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 15:34
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 01:37

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-57032-1	CS 200	Solid	04/16/25 10:38	04/17/25 09:03	0.5
880-57032-2	CS 201	Solid	04/16/25 10:39	04/17/25 09:03	0.5
880-57032-3	CS 202	Solid	04/16/25 10:40	04/17/25 09:03	0.5
880-57032-4	CS 204	Solid	04/16/25 10:42	04/17/25 09:03	0.5
880-57032-5	CS 205	Solid	04/16/25 10:43	04/17/25 09:03	0.5
880-57032-6	CS 206	Solid	04/16/25 10:44	04/17/25 09:03	0.5
880-57032-7	CS 207	Solid	04/16/25 10:47	04/17/25 09:03	0.5
880-57032-8	CS 208	Solid	04/16/25 10:48	04/17/25 09:03	0.5
880-57032-9	CS 209	Solid	04/16/25 11:06	04/17/25 09:03	0.5
880-57032-10	CS 212	Solid	04/16/25 11:10	04/17/25 09:03	0.5
880-57032-11	CS 213	Solid	04/16/25 11:14	04/17/25 09:03	0.5
880-57032-12	CS 214	Solid	04/16/25 11:16	04/17/25 09:03	0.5
880-57032-13	CS 215	Solid	04/16/25 11:18	04/17/25 09:03	0.5
880-57032-14	CS 216	Solid	04/16/25 11:19	04/17/25 09:03	0.5
880-57032-15	CS 217	Solid	04/16/25 11:38	04/17/25 09:03	0.5
880-57032-16	CS 218	Solid	04/16/25 11:40	04/17/25 09:03	0.5
880-57032-17	CS 219	Solid	04/16/25 11:42	04/17/25 09:03	0.5
880-57032-18	CS 220	Solid	04/16/25 11:44	04/17/25 09:03	0.5
880-57032-19	CS 222	Solid	04/16/25 11:46	04/17/25 09:03	0.5
880-57032-20	CS 223	Solid	04/16/25 11:48	04/17/25 09:03	0.5
880-57032-21	CS 225	Solid	04/16/25 12:00	04/17/25 09:03	0.5
880-57032-22	CS 226	Solid	04/16/25 12:02	04/17/25 09:03	0.5
880-57032-23	CS 227	Solid	04/16/25 12:03	04/17/25 09:03	0.5
880-57032-24	CS 228	Solid	04/16/25 12:04	04/17/25 09:03	0.5
880-57032-25	CS 229	Solid	04/16/25 12:06	04/17/25 09:03	0.5
880-57032-26	CS 231	Solid	04/16/25 12:08	04/17/25 09:03	0.5
880-57032-27	CS 232	Solid	04/16/25 12:10	04/17/25 09:03	0.5
880-57032-28	CS 233	Solid	04/16/25 12:12	04/17/25 09:03	0.5
880-57032-29	CS 235	Solid	04/16/25 12:14	04/17/25 09:03	0.5
880-57032-30	CS 236	Solid	04/16/25 12:15	04/17/25 09:03	0.5
880-57032-31	CS 237	Solid	04/16/25 12:30	04/17/25 09:03	0.5

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-57032 Chain of Custody

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Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum LLC	Company Name:	Ensolum, LLC
Address:	609 N Marienfeld Street	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432 557 8895	Email:	hgreen@ensolum.com

Work Order Comments

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

Project Name:	Flatland FNR Frac line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Raphael, Leandra		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	8.2
Total Containers:		Corrected Temperature:	8.1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides (300.0)	TPH (8015)	BTEX (8021)	Sample Comments
CS 200	S	4-16-25	1038	0-5	C	1		X	X	X	
CS 201	S		1039								
CS 202	S		1040								
CS 204	S		1042								
CS 205	S		1043								
CS 206	S		1044								
CS 207	S		1047								
CS 208	S		1048								
CS 209	S		1106								
CS 212	S	↓	1110	↓	↓	↓		↓	↓	↓	

Preservative Codes

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

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	1103	4-16-25	2		
3			4		
5			6		

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 4

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

Work Order Comments

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

Project Name:	Flatland FNR Frac line	Turn Around	
Project Number:	03D383600 1	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Raptkal, Leandra	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides (EPA: 300.0)	Parameters: TPH (8015)	Parameters: BTEX (8021)	Sample Comments
CS 213	S	4/16/25	1114	0.5'	C	1		X	X	X	
CS 214	S		1116								
CS 215	S		1118								
CS 216	S		1119								
CS 217	S		1138								
CS 218	S		1140								
CS 219	S		1142								
CS 220	S		1144								
CS 222	S		1146								
CS 223	S		1148								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	903	4-16-25	2		
3			4		
5			6		

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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

Work Order Comments

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

Project Name:	Flatland FNR fracline	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Rapheal, Leandra	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides 300.0	TPH (8015)	BTEX (8021)	Sample Comments
CS 225	S	4/16/25	1200	0.5	C	1		X	X	X	
CS 226	S		1202								
CS 227	S		1203								
CS 228	S		1204								
CS 229	S		1206								
CS 231	S		1208								
CS 232	S		1210								
CS 233	S		1212								
CS 235	S		1214								
CS 236	S	↓	1215	↓	↓	↓		↓	↓	↓	

Preservative Codes

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

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	903	4-14-23	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum LLC	Company Name:	Ensolum LLC
Address:	601 N Marienfield St	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432 557 8895	Email:	hgreen@ensolum.com

Work Order Comments

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

Project Name:	Flatland FNR Fracline	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Raphael Leandro	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides (EPA 300.0)	Parameters: TPH (8015)	Parameters: BTEX (8021)	Sample Comments
CS237	S	4/16/25	1230	0.5'	C	1		X	X	X	

NFE RY NFE 04/16/25 RY

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

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

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-57032-1
SDG Number: Eddy County

Login Number: 57032
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/5/2025 10:54:08 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8044-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

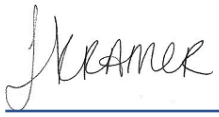
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
5/5/2025 10:54:08 AM

Authorized for release by
Jessica Kramer, Project Manager
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(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8044-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 890-8044-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1 Eurofins Carlsbad

Job Narrative
890-8044-1

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

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

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

Receipt
The samples were received on 4/29/2025 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 174 (890-8044-1), CS 178 (890-8044-2), CS 179 (890-8044-3), CS 180 (890-8044-4), CS 211 (890-8044-5), CS 238 (890-8044-6), CS 181 (890-8044-7), CS 182 (890-8044-8), CS 183 (890-8044-9), CS 184 (890-8044-10), CS 185 (890-8044-11), CS 186 (890-8044-12), CS 13 (890-8044-13) and CS 210 (890-8044-14).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: CS 13 (890-8044-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-109134 and analytical batch 880-109141 was outside the control limits.

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109028 and analytical batch 880-109158 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 174 (890-8044-1), CS 178 (890-8044-2), CS 179 (890-8044-3), CS 180 (890-8044-4), CS 211 (890-8044-5), CS 238 (890-8044-6), CS 181 (890-8044-7), CS 182 (890-8044-8), CS 183 (890-8044-9), CS 184 (890-8044-10), CS 185 (890-8044-11), CS 186 (890-8044-12), CS 13 (890-8044-13), CS 210 (890-8044-14), (LCS 880-109028/2-A), (LCSD 880-109028/3-A), (890-8043-A-4-A), (890-8043-A-4-B MS) and (890-8043-A-4-C 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.

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

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 174

Date Collected: 04/29/25 09:30
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/01/25 10:49	05/02/25 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/25 12:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/01/25 19:59	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 19:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 19:59*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 19:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		10.1		mg/Kg			05/01/25 15:09	1

Client Sample ID: CS 178

Date Collected: 04/29/25 09:38
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/01/25 10:49	05/02/25 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:32*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 178

Lab Sample ID: 890-8044-2
Matrix: Solid
Date Collected: 04/29/25 09:38
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:32*	*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			05/02/25 12:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/01/25 20:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/01/25 20:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/01/25 20:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/01/25 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:15*	*1*
o-Terphenyl	*153*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**648**		9.96	mg/Kg			05/01/25 15:16	1

Client Sample ID: CS 179

Lab Sample ID: 890-8044-3
Matrix: Solid
Date Collected: 04/29/25 09:32
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/01/25 10:49	05/02/25 12:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/01/25 10:49	05/02/25 12:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/01/25 10:49	05/02/25 12:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/01/25 10:49	05/02/25 12:53	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/01/25 10:49	05/02/25 12:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/01/25 10:49	05/02/25 12:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:53*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/02/25 12:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/01/25 20:32	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 179

Lab Sample ID: 890-8044-3
Matrix: Solid
Date Collected: 04/29/25 09:32
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 20:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 20:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:32*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		10.0		mg/Kg			05/01/25 15:23	1

Client Sample ID: CS 180

Lab Sample ID: 890-8044-4
Matrix: Solid
Date Collected: 04/29/25 09:36
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/01/25 10:49	05/02/25 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:13*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/02/25 13:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/01/25 20:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 20:48	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 20:48	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:48*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:48*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 180

Lab Sample ID: 890-8044-4
Matrix: Solid
Date Collected: 04/29/25 09:36
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	335		9.98		mg/Kg			05/01/25 15:30	1

Client Sample ID: CS 211

Lab Sample ID: 890-8044-5
Matrix: Solid
Date Collected: 04/29/25 10:03
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/01/25 10:49	05/02/25 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:34*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:34*	*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			05/02/25 13:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/01/25 21:04	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 21:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 21:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*168*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:04*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		9.94		mg/Kg			05/01/25 15:45	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 238

Lab Sample ID: 890-8044-6
Matrix: Solid
Date Collected: 04/29/25 10:12
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/01/25 10:49	05/02/25 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/02/25 13:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/01/25 21:20	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/30/25 08:28	05/01/25 21:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/30/25 08:28	05/01/25 21:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/30/25 08:28	05/01/25 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:20*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		10.1		mg/Kg			05/01/25 15:52	1

Client Sample ID: CS 181

Lab Sample ID: 890-8044-7
Matrix: Solid
Date Collected: 04/29/25 09:47
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 08:11	05/01/25 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/01/25 08:11*	*05/01/25 18:58*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 181

Date Collected: 04/29/25 09:47
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-7
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/01/25 08:11*	*05/01/25 18:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/01/25 18:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/01/25 21:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/01/25 21:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/01/25 21:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/01/25 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*168*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:37*	*1*
o-Terphenyl	*153*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		9.98	mg/Kg			05/01/25 16:13	1

Client Sample ID: CS 182

Date Collected: 04/29/25 09:42
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/01/25 08:11	05/01/25 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/01/25 08:11*	*05/01/25 19:18*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/01/25 08:11*	*05/01/25 19:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/01/25 19:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/01/25 22:09	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 182

Lab Sample ID: 890-8044-8
Matrix: Solid
Date Collected: 04/29/25 09:42
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 22:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 22:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:09*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**343**		10.0		mg/Kg			05/01/25 16:20	1

Client Sample ID: CS 183

Lab Sample ID: 890-8044-9
Matrix: Solid
Date Collected: 04/29/25 09:45
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/01/25 10:49	05/02/25 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/01/25 10:49*	*05/02/25 17:31*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/01/25 10:49*	*05/02/25 17:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/02/25 17:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/01/25 22:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 22:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 22:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:25*	*1*
o-Terphenyl	*149*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 183

Date Collected: 04/29/25 09:45
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-9
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.0		9.98		mg/Kg			05/01/25 16:41	1

Client Sample ID: CS 184

Date Collected: 04/29/25 09:50
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-10
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
Ethylbenzene	0.00258		0.00201		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/01/25 17:00	05/01/25 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:01*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/01/25 18:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/01/25 22:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:41*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	474		10.1		mg/Kg			05/01/25 16:48	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 185

Date Collected: 04/29/25 09:52
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-11

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00200**		0.00199		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
o-Xylene	**0.00385**		0.00199		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/01/25 17:00	05/01/25 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:21*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00585**		0.00398		mg/Kg			05/01/25 18:21	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/01/25 22:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:57*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		10.0		mg/Kg			05/01/25 16:55	1

Client Sample ID: CS 186

Date Collected: 04/29/25 09:54
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-12

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
Ethylbenzene	**0.00248**		0.00198		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
o-Xylene	**0.00422**		0.00198		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
Xylenes, Total	**0.00422**		0.00397		mg/Kg		05/01/25 17:00	05/01/25 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:42*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 186

Date Collected: 04/29/25 09:54
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-12

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00670**		0.00397		mg/Kg			05/01/25 18:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/01/25 23:13	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*165*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:13*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**674**		10.1		mg/Kg			05/01/25 17:02	1

Client Sample ID: CS 13

Date Collected: 04/29/25 12:56
Date Received: 04/29/25 15:35
Sample Depth: 1

Lab Sample ID: 890-8044-13

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
Toluene	**0.00235**		0.00200		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 17:00	05/01/25 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/01/25 17:00*	*05/01/25 19:03*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*05/01/25 17:00*	*05/01/25 19:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/01/25 19:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/01/25 23:30	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 13

Lab Sample ID: 890-8044-13
Matrix: Solid
Date Collected: 04/29/25 12:56
Date Received: 04/29/25 15:35
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*171*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:30*	*1*
o-Terphenyl	*158*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**649**		10.0		mg/Kg			05/01/25 17:09	1

Client Sample ID: CS 210

Lab Sample ID: 890-8044-14
Matrix: Solid
Date Collected: 04/29/25 13:04
Date Received: 04/29/25 15:35
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
Ethylbenzene	**0.00236**		0.00199		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
o-Xylene	**0.00261**		0.00199		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/01/25 17:00	05/01/25 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*05/01/25 17:00*	*05/01/25 19:23*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/01/25 17:00*	*05/01/25 19:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00497**		0.00398		mg/Kg			05/01/25 19:23	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/01/25 23:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 23:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 23:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*172*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:46*	*1*
o-Terphenyl	*159*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:46*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 210
Date Collected: 04/29/25 13:04
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		9.90		mg/Kg			05/01/25 17:16	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-56959-A-26-A MB	Method Blank	106	99
890-8044-1	CS 174	98	101
890-8044-1 MS	CS 174	97	104
890-8044-1 MSD	CS 174	95	102
890-8044-2	CS 178	110	102
890-8044-3	CS 179	104	98
890-8044-4	CS 180	99	103
890-8044-5	CS 211	102	100
890-8044-6	CS 238	103	100
890-8044-7	CS 181	108	94
890-8044-8	CS 182	100	88
890-8044-9	CS 183	104	102
890-8044-10	CS 184	88	70
890-8044-11	CS 185	108	78
890-8044-12	CS 186	101	72
890-8044-13	CS 13	93	64 S1-
890-8044-14	CS 210	105	84
890-8052-A-1-G MS	Matrix Spike	105	98
890-8052-A-1-H MSD	Matrix Spike Duplicate	99	106
890-8052-A-6-C MS	Matrix Spike	100	90
890-8052-A-6-D MSD	Matrix Spike Duplicate	99	95
LCS 880-109134/1-A	Lab Control Sample	89	95
LCS 880-109135/1-A	Lab Control Sample	101	89
LCS 880-109180/1-A	Lab Control Sample	101	100
LCSD 880-109134/2-A	Lab Control Sample Dup	120	98
LCSD 880-109135/2-A	Lab Control Sample Dup	101	93
LCSD 880-109180/2-A	Lab Control Sample Dup	103	98
MB 880-109134/5-A	Method Blank	97	60 S1-
MB 880-109135/5-A	Method Blank	89	82
MB 880-109180/5-A	Method Blank	98	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-8043-A-4-B MS	Matrix Spike	144 S1+	145 S1+
890-8043-A-4-C MSD	Matrix Spike Duplicate	147 S1+	147 S1+
890-8044-1	CS 174	164 S1+	152 S1+
890-8044-2	CS 178	164 S1+	153 S1+
890-8044-3	CS 179	164 S1+	152 S1+
890-8044-4	CS 180	163 S1+	152 S1+
890-8044-5	CS 211	168 S1+	155 S1+
890-8044-6	CS 238	166 S1+	152 S1+
890-8044-7	CS 181	168 S1+	153 S1+

Surrogate Summary

Client: Ensolum Job ID: 890-8044-1
Project/Site: FLATLAND FNR FRAC LINE SDG: 03D3836001

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-8044-8	CS 182	161 S1+	151 S1+										
890-8044-9	CS 183	163 S1+	149 S1+										
890-8044-10	CS 184	163 S1+	152 S1+										
890-8044-11	CS 185	163 S1+	151 S1+										
890-8044-12	CS 186	165 S1+	155 S1+										
890-8044-13	CS 13	171 S1+	158 S1+										
890-8044-14	CS 210	172 S1+	159 S1+										
LCS 880-109028/2-A	Lab Control Sample	173 S1+	150 S1+										
LCSD 880-109028/3-A	Lab Control Sample Dup	169 S1+	144 S1+										
MB 880-109028/1-A	Method Blank	145 S1+	134 S1+										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109134/5-A
Matrix: Solid
Analysis Batch: 109141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109134

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 08:09	05/01/25 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/01/25 08:09*	*05/01/25 11:18*	*1*
1,4-Difluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*05/01/25 08:09*	*05/01/25 11:18*	*1*

Lab Sample ID: LCS 880-109134/1-A
Matrix: Solid
Analysis Batch: 109141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109134

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09660		mg/Kg		97	70 - 130		
Toluene			0.100	0.08999		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09735		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1818		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.09353		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-109134/2-A
Matrix: Solid
Analysis Batch: 109141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109134

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09715		mg/Kg		97	70 - 130	1	35
Toluene			0.100	0.1096		mg/Kg		110	70 - 130	20	35
Ethylbenzene			0.100	0.1203		mg/Kg		120	70 - 130	21	35
m-Xylene & p-Xylene			0.200	0.2446		mg/Kg		122	70 - 130	29	35
o-Xylene			0.100	0.1206		mg/Kg		121	70 - 130	25	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-8052-A-1-G MS
Matrix: Solid
Analysis Batch: 109141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1030		mg/Kg		103	70 - 130		
Toluene	<0.00200	U	0.100	0.09565		mg/Kg		96	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

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

Lab Sample ID: 890-8052-A-1-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109141 — **Prep Batch: 109134**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1050		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1991		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.100	0.1003		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-8052-A-1-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109141 — **Prep Batch: 109134**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1050		mg/Kg		105	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09559		mg/Kg		96	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.09891		mg/Kg		99	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1865		mg/Kg		93	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.09212		mg/Kg		92	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-109135/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109139 — **Prep Batch: 109135**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 08:11	05/01/25 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/01/25 08:11*	*05/01/25 11:15*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*05/01/25 08:11*	*05/01/25 11:15*	*1*

Lab Sample ID: LCS 880-109135/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109139 — **Prep Batch: 109135**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07379		mg/Kg		74	70 - 130
Toluene	0.100	0.07156		mg/Kg		72	70 - 130
Ethylbenzene	0.100	0.07525		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1588		mg/Kg		79	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

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

Lab Sample ID: LCS 880-109135/1-A
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109135

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.07608		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-109135/2-A
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109135

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07664		mg/Kg		77	70 - 130	4	35
Toluene			0.100	0.07569		mg/Kg		76	70 - 130	6	35
Ethylbenzene			0.100	0.07767		mg/Kg		78	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1611		mg/Kg		81	70 - 130	1	35
o-Xylene			0.100	0.07694		mg/Kg		77	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-8052-A-6-C MS
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08030		mg/Kg		80	70 - 130		
Toluene	<0.00200	U	0.100	0.08639		mg/Kg		86	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08936		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1841		mg/Kg		92	70 - 130		
o-Xylene	<0.00200	U	0.100	0.08608		mg/Kg		86	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-8052-A-6-D MSD
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08546		mg/Kg		85	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.08924		mg/Kg		89	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09264		mg/Kg		93	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1913		mg/Kg		96	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.08898		mg/Kg		89	70 - 130	3	35

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

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

Lab Sample ID: 890-8052-A-6-D MSD
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109135

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-56959-A-26-A MB
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109180

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/25 10:49	05/02/25 16:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/02/25 10:49	05/02/25 16:50	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/02/25 10:49	05/02/25 16:50	1

Lab Sample ID: MB 880-109180/5-A
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109180

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 10:49	05/02/25 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/01/25 10:49	05/02/25 11:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/01/25 10:49	05/02/25 11:50	1

Lab Sample ID: LCS 880-109180/1-A
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109180

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09015		mg/Kg		90	70 - 130		
Toluene			0.100	0.08174		mg/Kg		82	70 - 130		
Ethylbenzene			0.100	0.08904		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1795		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.09008		mg/Kg		90	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

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

Lab Sample ID: LCS 880-109180/1-A
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109180

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-109180/2-A
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09346		mg/Kg		93	70 - 130	4	35
Toluene			0.100	0.08333		mg/Kg		83	70 - 130	2	35
Ethylbenzene			0.100	0.09024		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1799		mg/Kg		90	70 - 130	0	35
o-Xylene			0.100	0.08974		mg/Kg		90	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-8044-1 MS
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: CS 174
Prep Type: Total/NA
Prep Batch: 109180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.08881		mg/Kg		89	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09237		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1816		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.100	0.09023		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-8044-1 MSD
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: CS 174
Prep Type: Total/NA
Prep Batch: 109180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09942		mg/Kg		99	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08531		mg/Kg		85	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.08880		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1732		mg/Kg		87	70 - 130	5	35
o-Xylene	<0.00200	U	0.100	0.08551		mg/Kg		86	70 - 130	5	35

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

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

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

Lab Sample ID: MB 880-109028/1-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109028

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 17:45*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 17:45*	*1*

Lab Sample ID: LCS 880-109028/2-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109028

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1010		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*173*	*S1+*	*70 - 130*
o-Terphenyl	*150*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-109028/3-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109028

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1014		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	981.2		mg/Kg		98	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*169*	*S1+*	*70 - 130*
o-Terphenyl	*144*	*S1+*	*70 - 130*

Lab Sample ID: 890-8043-A-4-B MS
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1231		mg/Kg		123	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1241		mg/Kg		124	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

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

Lab Sample ID: 890-8043-A-4-B MS
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109028

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	144	S1+	70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: 890-8043-A-4-C MSD
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1259		mg/Kg		126	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1271		mg/Kg		127	70 - 130	2	20

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109079/1-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/01/25 13:45	1

Lab Sample ID: LCS 880-109079/2-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.9		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-109079/3-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.7		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 890-8044-6 MS
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: CS 238
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	119		252	383.5		mg/Kg		105	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8044-6 MSD
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: CS 238
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	119		252	374.1		mg/Kg		101	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

GC VOA

Prep Batch: 109134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-10	CS 184	Total/NA	Solid	5035	
890-8044-11	CS 185	Total/NA	Solid	5035	
890-8044-12	CS 186	Total/NA	Solid	5035	
890-8044-13	CS 13	Total/NA	Solid	5035	
890-8044-14	CS 210	Total/NA	Solid	5035	
MB 880-109134/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109134/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109134/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8052-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-8052-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 109135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-7	CS 181	Total/NA	Solid	5035	
890-8044-8	CS 182	Total/NA	Solid	5035	
MB 880-109135/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109135/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109135/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8052-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8052-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-7	CS 181	Total/NA	Solid	8021B	109135
890-8044-8	CS 182	Total/NA	Solid	8021B	109135
MB 880-109135/5-A	Method Blank	Total/NA	Solid	8021B	109135
LCS 880-109135/1-A	Lab Control Sample	Total/NA	Solid	8021B	109135
LCSD 880-109135/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109135
890-8052-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	109135
890-8052-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109135

Analysis Batch: 109141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-10	CS 184	Total/NA	Solid	8021B	109134
890-8044-11	CS 185	Total/NA	Solid	8021B	109134
890-8044-12	CS 186	Total/NA	Solid	8021B	109134
890-8044-13	CS 13	Total/NA	Solid	8021B	109134
890-8044-14	CS 210	Total/NA	Solid	8021B	109134
MB 880-109134/5-A	Method Blank	Total/NA	Solid	8021B	109134
LCS 880-109134/1-A	Lab Control Sample	Total/NA	Solid	8021B	109134
LCSD 880-109134/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109134
890-8052-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	109134
890-8052-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109134

Prep Batch: 109180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	5035	
890-8044-2	CS 178	Total/NA	Solid	5035	
890-8044-3	CS 179	Total/NA	Solid	5035	
890-8044-4	CS 180	Total/NA	Solid	5035	
890-8044-5	CS 211	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

GC VOA (Continued)

Prep Batch: 109180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-6	CS 238	Total/NA	Solid	5035	
890-8044-9	CS 183	Total/NA	Solid	5035	
880-56959-A-26-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-109180/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109180/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109180/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8044-1 MS	CS 174	Total/NA	Solid	5035	
890-8044-1 MSD	CS 174	Total/NA	Solid	5035	

Analysis Batch: 109262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	8021B	109180
890-8044-2	CS 178	Total/NA	Solid	8021B	109180
890-8044-3	CS 179	Total/NA	Solid	8021B	109180
890-8044-4	CS 180	Total/NA	Solid	8021B	109180
890-8044-5	CS 211	Total/NA	Solid	8021B	109180
890-8044-6	CS 238	Total/NA	Solid	8021B	109180
890-8044-9	CS 183	Total/NA	Solid	8021B	109180
880-56959-A-26-A MB	Method Blank	Total/NA	Solid	8021B	109180
MB 880-109180/5-A	Method Blank	Total/NA	Solid	8021B	109180
LCS 880-109180/1-A	Lab Control Sample	Total/NA	Solid	8021B	109180
LCSD 880-109180/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109180
890-8044-1 MS	CS 174	Total/NA	Solid	8021B	109180
890-8044-1 MSD	CS 174	Total/NA	Solid	8021B	109180

Analysis Batch: 109333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	Total BTEX	
890-8044-2	CS 178	Total/NA	Solid	Total BTEX	
890-8044-3	CS 179	Total/NA	Solid	Total BTEX	
890-8044-4	CS 180	Total/NA	Solid	Total BTEX	
890-8044-5	CS 211	Total/NA	Solid	Total BTEX	
890-8044-6	CS 238	Total/NA	Solid	Total BTEX	
890-8044-7	CS 181	Total/NA	Solid	Total BTEX	
890-8044-8	CS 182	Total/NA	Solid	Total BTEX	
890-8044-9	CS 183	Total/NA	Solid	Total BTEX	
890-8044-10	CS 184	Total/NA	Solid	Total BTEX	
890-8044-11	CS 185	Total/NA	Solid	Total BTEX	
890-8044-12	CS 186	Total/NA	Solid	Total BTEX	
890-8044-13	CS 13	Total/NA	Solid	Total BTEX	
890-8044-14	CS 210	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	8015NM Prep	
890-8044-2	CS 178	Total/NA	Solid	8015NM Prep	
890-8044-3	CS 179	Total/NA	Solid	8015NM Prep	
890-8044-4	CS 180	Total/NA	Solid	8015NM Prep	
890-8044-5	CS 211	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

GC Semi VOA (Continued)

Prep Batch: 109028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-6	CS 238	Total/NA	Solid	8015NM Prep	
890-8044-7	CS 181	Total/NA	Solid	8015NM Prep	
890-8044-8	CS 182	Total/NA	Solid	8015NM Prep	
890-8044-9	CS 183	Total/NA	Solid	8015NM Prep	
890-8044-10	CS 184	Total/NA	Solid	8015NM Prep	
890-8044-11	CS 185	Total/NA	Solid	8015NM Prep	
890-8044-12	CS 186	Total/NA	Solid	8015NM Prep	
890-8044-13	CS 13	Total/NA	Solid	8015NM Prep	
890-8044-14	CS 210	Total/NA	Solid	8015NM Prep	
MB 880-109028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8043-A-4-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8043-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	8015B NM	109028
890-8044-2	CS 178	Total/NA	Solid	8015B NM	109028
890-8044-3	CS 179	Total/NA	Solid	8015B NM	109028
890-8044-4	CS 180	Total/NA	Solid	8015B NM	109028
890-8044-5	CS 211	Total/NA	Solid	8015B NM	109028
890-8044-6	CS 238	Total/NA	Solid	8015B NM	109028
890-8044-7	CS 181	Total/NA	Solid	8015B NM	109028
890-8044-8	CS 182	Total/NA	Solid	8015B NM	109028
890-8044-9	CS 183	Total/NA	Solid	8015B NM	109028
890-8044-10	CS 184	Total/NA	Solid	8015B NM	109028
890-8044-11	CS 185	Total/NA	Solid	8015B NM	109028
890-8044-12	CS 186	Total/NA	Solid	8015B NM	109028
890-8044-13	CS 13	Total/NA	Solid	8015B NM	109028
890-8044-14	CS 210	Total/NA	Solid	8015B NM	109028
MB 880-109028/1-A	Method Blank	Total/NA	Solid	8015B NM	109028
LCS 880-109028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109028
LCSD 880-109028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109028
890-8043-A-4-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109028
890-8043-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109028

Analysis Batch: 109286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	8015 NM	
890-8044-2	CS 178	Total/NA	Solid	8015 NM	
890-8044-3	CS 179	Total/NA	Solid	8015 NM	
890-8044-4	CS 180	Total/NA	Solid	8015 NM	
890-8044-5	CS 211	Total/NA	Solid	8015 NM	
890-8044-6	CS 238	Total/NA	Solid	8015 NM	
890-8044-7	CS 181	Total/NA	Solid	8015 NM	
890-8044-8	CS 182	Total/NA	Solid	8015 NM	
890-8044-9	CS 183	Total/NA	Solid	8015 NM	
890-8044-10	CS 184	Total/NA	Solid	8015 NM	
890-8044-11	CS 185	Total/NA	Solid	8015 NM	
890-8044-12	CS 186	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

GC Semi VOA (Continued)

Analysis Batch: 109286 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-13	CS 13	Total/NA	Solid	8015 NM	
890-8044-14	CS 210	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Soluble	Solid	DI Leach	
890-8044-2	CS 178	Soluble	Solid	DI Leach	
890-8044-3	CS 179	Soluble	Solid	DI Leach	
890-8044-4	CS 180	Soluble	Solid	DI Leach	
890-8044-5	CS 211	Soluble	Solid	DI Leach	
890-8044-6	CS 238	Soluble	Solid	DI Leach	
890-8044-7	CS 181	Soluble	Solid	DI Leach	
890-8044-8	CS 182	Soluble	Solid	DI Leach	
890-8044-9	CS 183	Soluble	Solid	DI Leach	
890-8044-10	CS 184	Soluble	Solid	DI Leach	
890-8044-11	CS 185	Soluble	Solid	DI Leach	
890-8044-12	CS 186	Soluble	Solid	DI Leach	
890-8044-13	CS 13	Soluble	Solid	DI Leach	
890-8044-14	CS 210	Soluble	Solid	DI Leach	
MB 880-109079/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109079/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109079/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8044-6 MS	CS 238	Soluble	Solid	DI Leach	
890-8044-6 MSD	CS 238	Soluble	Solid	DI Leach	

Analysis Batch: 109101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Soluble	Solid	300.0	109079
890-8044-2	CS 178	Soluble	Solid	300.0	109079
890-8044-3	CS 179	Soluble	Solid	300.0	109079
890-8044-4	CS 180	Soluble	Solid	300.0	109079
890-8044-5	CS 211	Soluble	Solid	300.0	109079
890-8044-6	CS 238	Soluble	Solid	300.0	109079
890-8044-7	CS 181	Soluble	Solid	300.0	109079
890-8044-8	CS 182	Soluble	Solid	300.0	109079
890-8044-9	CS 183	Soluble	Solid	300.0	109079
890-8044-10	CS 184	Soluble	Solid	300.0	109079
890-8044-11	CS 185	Soluble	Solid	300.0	109079
890-8044-12	CS 186	Soluble	Solid	300.0	109079
890-8044-13	CS 13	Soluble	Solid	300.0	109079
890-8044-14	CS 210	Soluble	Solid	300.0	109079
MB 880-109079/1-A	Method Blank	Soluble	Solid	300.0	109079
LCS 880-109079/2-A	Lab Control Sample	Soluble	Solid	300.0	109079
LCSD 880-109079/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109079
890-8044-6 MS	CS 238	Soluble	Solid	300.0	109079
890-8044-6 MSD	CS 238	Soluble	Solid	300.0	109079

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 174

Date Collected: 04/29/25 09:30
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 12:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 19:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 19:59	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:09	CH	EET MID

Client Sample ID: CS 178

Date Collected: 04/29/25 09:38
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 12:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 20:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 20:15	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:16	CH	EET MID

Client Sample ID: CS 179

Date Collected: 04/29/25 09:32
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 12:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 12:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 20:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 20:32	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:23	CH	EET MID

Client Sample ID: CS 180

Date Collected: 04/29/25 09:36
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 13:13	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 180

Date Collected: 04/29/25 09:36
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109286	05/01/25 20:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 20:48	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:30	CH	EET MID

Client Sample ID: CS 211

Date Collected: 04/29/25 10:03
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 13:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 21:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 21:04	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:45	CH	EET MID

Client Sample ID: CS 238

Date Collected: 04/29/25 10:12
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 13:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 21:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 21:20	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:52	CH	EET MID

Client Sample ID: CS 181

Date Collected: 04/29/25 09:47
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109135	05/01/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109139	05/01/25 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 18:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 21:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 21:37	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 181

Date Collected: 04/29/25 09:47
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:13	CH	EET MID

Client Sample ID: CS 182

Date Collected: 04/29/25 09:42
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109135	05/01/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109139	05/01/25 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 19:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 22:09	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:20	CH	EET MID

Client Sample ID: CS 183

Date Collected: 04/29/25 09:45
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 17:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 17:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 22:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 22:25	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:41	CH	EET MID

Client Sample ID: CS 184

Date Collected: 04/29/25 09:50
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 18:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 18:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 22:41	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:48	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 185

Date Collected: 04/29/25 09:52
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 18:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 22:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 22:57	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:55	CH	EET MID

Client Sample ID: CS 186

Date Collected: 04/29/25 09:54
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 23:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 23:13	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 17:02	CH	EET MID

Client Sample ID: CS 13

Date Collected: 04/29/25 12:56
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 19:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 23:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 23:30	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 17:09	CH	EET MID

Client Sample ID: CS 210

Date Collected: 04/29/25 13:04
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 19:23	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 210

Date Collected: 04/29/25 13:04
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109286	05/01/25 23:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 23:46	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 17:16	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8044-1	CS 174	Solid	04/29/25 09:30	04/29/25 15:35	0.5
890-8044-2	CS 178	Solid	04/29/25 09:38	04/29/25 15:35	0.5
890-8044-3	CS 179	Solid	04/29/25 09:32	04/29/25 15:35	0.5
890-8044-4	CS 180	Solid	04/29/25 09:36	04/29/25 15:35	0.5
890-8044-5	CS 211	Solid	04/29/25 10:03	04/29/25 15:35	0.5
890-8044-6	CS 238	Solid	04/29/25 10:12	04/29/25 15:35	0.5
890-8044-7	CS 181	Solid	04/29/25 09:47	04/29/25 15:35	0.5
890-8044-8	CS 182	Solid	04/29/25 09:42	04/29/25 15:35	0.5
890-8044-9	CS 183	Solid	04/29/25 09:45	04/29/25 15:35	0.5
890-8044-10	CS 184	Solid	04/29/25 09:50	04/29/25 15:35	0.5
890-8044-11	CS 185	Solid	04/29/25 09:52	04/29/25 15:35	0.5
890-8044-12	CS 186	Solid	04/29/25 09:54	04/29/25 15:35	0.5
890-8044-13	CS 13	Solid	04/29/25 12:56	04/29/25 15:35	1
890-8044-14	CS 210	Solid	04/29/25 13:04	04/29/25 15:35	0.5

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Chain of Custody

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

890-8044 Chain of Custody

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Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895 Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com	

Work Order Comments

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

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Uriel Santillana	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TN-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.0
Total Containers:		Corrected Temperature:	3.8

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
CS174	S	4/29/25	0930	0.5'	C	1		X	X	X			
CS 178			938										
CS 179			932										
CS 180			936										
CS 211			1003										
CS 238			1012										
CS 181			947										
CS 182			942										
CS 183			945										
CS 184	↓	↓	950	↓	↓	↓		↓	↓	↓			

Parameters

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7:35 4/29	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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2-2

Chain of Custody

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

Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895 Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com	

Work Order Comments

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

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Uriel Santillana	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

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

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
CS 185	S	4/29/25	0952	0.5	C	1		X	X	X	X		
CS 186			0954	0.5	C	1		X	X	X			
CS 13			1256	1'	C	1		X	X	X			
~~CS 16~~													
~~CS 33~~													
~~CS 64~~													
~~CS 194~~													
CS 210			1304	0.5	C	1		X	X	X			

Parameters

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

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

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1		4/29/25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8044-1
SDG Number: 03D3836001

Login Number: 8044
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8044-1
SDG Number: 03D3836001

Login Number: 8044
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 04/30/25 08:04 AM

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

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Flatland FNR Frac line
03D3836001

JOB NUMBER

890-8046-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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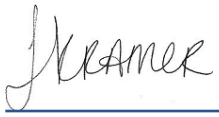
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Ensolum
Project/Site: Flatland FNR Frac line

Laboratory Job ID: 890-8046-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 890-8046-1
Project: Flatland FNR Frac line

Job ID: 890-8046-1 Eurofins Carlsbad

Job Narrative
890-8046-1

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

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

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

Receipt
The samples were received on 4/29/2025 4:22 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 5.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 133 (890-8046-1), CS 147 (890-8046-2), CS 148 (890-8046-3), CS 131 (890-8046-4), CS 160 (890-8046-5), CS 162 (890-8046-6), CS 163 (890-8046-7) and CS 171 (890-8046-8).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-109088 and analytical batch 880-109031 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.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109028 and analytical batch 880-109158 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109114 and analytical batch 880-109160 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 131 (890-8046-4), CS 160 (890-8046-5), CS 162 (890-8046-6), CS 163 (890-8046-7), CS 171 (890-8046-8), (LCS 880-109114/2-A), (LCSD 880-109114/3-A), (890-8046-A-4-D MS) and (890-8046-A-4-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 133 (890-8046-1), CS 147 (890-8046-2), CS 148 (890-8046-3), (LCS 880-109028/2-A), (LCSD 880-109028/3-A), (890-8043-A-4-A), (890-8043-A-4-B MS) and (890-8043-A-4-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-109160 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-109160/58).

Next CCV meets acceptance criteria within 20 samples and 12 hours.

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

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

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 133

Lab Sample ID: 890-8046-1
Matrix: Solid
Date Collected: 04/28/25 10:41
Date Received: 04/29/25 16:22
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00938**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
Toluene	**0.00331**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
Ethylbenzene	**0.00214**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
o-Xylene	**0.00236**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/30/25 12:47	05/01/25 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/30/25 12:47*	*05/01/25 04:48*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*04/30/25 12:47*	*05/01/25 04:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0172**		0.00399		mg/Kg			05/01/25 04:48	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/02/25 00:03	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/02/25 00:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/02/25 00:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/02/25 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:03*	*1*
o-Terphenyl	*153*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**548**		10.1		mg/Kg			05/01/25 17:23	1

Client Sample ID: CS 147

Lab Sample ID: 890-8046-2
Matrix: Solid
Date Collected: 04/28/25 10:49
Date Received: 04/29/25 16:22
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00214**		0.00202		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
Toluene	**0.00400**		0.00202		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/30/25 12:47	05/01/25 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 147

Date Collected: 04/28/25 10:49
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Lab Sample ID: 890-8046-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00614**		0.00404	mg/Kg			05/01/25 05:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/02/25 00:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/02/25 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/02/25 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/02/25 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:18*	*1*
o-Terphenyl	*154*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**506**		9.94	mg/Kg			04/30/25 23:38	1

Client Sample ID: CS 148

Date Collected: 04/28/25 10:52
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Lab Sample ID: 890-8046-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
o-Xylene	**0.00262**		0.00201	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/30/25 12:47	05/01/25 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:28*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/01/25 05:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/02/25 00:35	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 148

Lab Sample ID: 890-8046-3
Matrix: Solid
Date Collected: 04/28/25 10:52
Date Received: 04/29/25 16:22
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/02/25 00:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/02/25 00:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/02/25 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*168*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:35*	*1*
o-Terphenyl	*157*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		9.96		mg/Kg			04/30/25 23:45	1

Client Sample ID: CS 131

Lab Sample ID: 890-8046-4
Matrix: Solid
Date Collected: 04/28/25 10:39
Date Received: 04/29/25 16:22
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
o-Xylene	**0.00266**		0.00199		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/30/25 12:47	05/01/25 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:49*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:49*	*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			05/01/25 05:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/01/25 18:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/30/25 15:20	05/01/25 18:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/30/25 15:20	05/01/25 18:36	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/30/25 15:20	05/01/25 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*188*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 18:36*	*1*
o-Terphenyl	*182*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 18:36*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 131

Lab Sample ID: 890-8046-4
Matrix: Solid
Date Collected: 04/28/25 10:39
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		9.92		mg/Kg			04/30/25 23:53	1

Client Sample ID: CS 160

Lab Sample ID: 890-8046-5
Matrix: Solid
Date Collected: 04/28/25 13:14
Date Received: 04/29/25 16:22
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/30/25 12:47	05/01/25 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:09*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/01/25 06:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<3.57	U	3.57		mg/Kg			05/01/25 19:26	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<3.57	U	3.57		mg/Kg		04/30/25 15:20	05/01/25 19:26	1
Diesel Range Organics (Over C10-C28)	<3.57	U	3.57		mg/Kg		04/30/25 15:20	05/01/25 19:26	1
Oil Range Organics (Over C28-C36)	<3.57	U	3.57		mg/Kg		04/30/25 15:20	05/01/25 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*185*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:26*	*1*
o-Terphenyl	*179*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415		10.0		mg/Kg			05/01/25 00:00	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 162

Lab Sample ID: 890-8046-6
Matrix: Solid
Date Collected: 04/28/25 13:16
Date Received: 04/29/25 16:22
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
o-Xylene	**0.00242**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/30/25 12:47	05/01/25 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:30*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/01/25 06:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/01/25 19:42	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/30/25 15:20	05/01/25 19:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/30/25 15:20	05/01/25 19:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/30/25 15:20	05/01/25 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:42*	*1*
o-Terphenyl	*178*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		10.1		mg/Kg			05/01/25 00:21	1

Client Sample ID: CS 163

Lab Sample ID: 890-8046-7
Matrix: Solid
Date Collected: 04/28/25 13:17
Date Received: 04/29/25 16:22
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
o-Xylene	**0.00199**		0.00199		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/30/25 12:47	05/01/25 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:50*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 163

Lab Sample ID: 890-8046-7
Matrix: Solid
Date Collected: 04/28/25 13:17
Date Received: 04/29/25 16:22
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:50*	*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			05/01/25 06:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			05/01/25 19:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		04/30/25 15:20	05/01/25 19:59	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		04/30/25 15:20	05/01/25 19:59	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		04/30/25 15:20	05/01/25 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:59*	*1*
o-Terphenyl	*180*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.6**		10.1	mg/Kg			05/01/25 00:28	1

Client Sample ID: CS 171

Lab Sample ID: 890-8046-8
Matrix: Solid
Date Collected: 04/28/25 13:20
Date Received: 04/29/25 16:22
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/30/25 08:59	04/30/25 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/30/25 08:59*	*04/30/25 19:53*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*04/30/25 08:59*	*04/30/25 19:53*	*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			04/30/25 19:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			05/01/25 20:15	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 171

Date Collected: 04/28/25 13:20
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Lab Sample ID: 890-8046-8

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		04/30/25 15:20	05/01/25 20:15	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		04/30/25 15:20	05/01/25 20:15	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/30/25 15:20	05/01/25 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*183*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 20:15*	*1*
o-Terphenyl	*180*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**527**		9.94		mg/Kg			05/01/25 00:50	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57498-A-1-B MS	Matrix Spike	108	97
880-57498-A-1-C MSD	Matrix Spike Duplicate	108	91
890-8045-A-6-C MS	Matrix Spike	116	87
890-8045-A-6-D MSD	Matrix Spike Duplicate	107	87
890-8046-1	CS 133	96	82
890-8046-2	CS 147	87	76
890-8046-3	CS 148	98	83
890-8046-4	CS 131	107	86
890-8046-5	CS 160	95	74
890-8046-6	CS 162	104	85
890-8046-7	CS 163	92	75
890-8046-8	CS 171	106	78
LCS 880-109038/1-A	Lab Control Sample	105	100
LCS 880-109088/1-A	Lab Control Sample	92	96
LCSD 880-109038/2-A	Lab Control Sample Dup	106	95
LCSD 880-109088/2-A	Lab Control Sample Dup	99	97
MB 880-109038/5-A	Method Blank	97	74
MB 880-109088/5-A	Method Blank	103	70

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8043-A-4-B MS	Matrix Spike	144 S1+	145 S1+
890-8043-A-4-C MSD	Matrix Spike Duplicate	147 S1+	147 S1+
890-8046-1	CS 133	163 S1+	153 S1+
890-8046-2	CS 147	166 S1+	154 S1+
890-8046-3	CS 148	168 S1+	157 S1+
890-8046-4	CS 131	188 S1+	182 S1+
890-8046-4 MS	CS 131	165 S1+	172 S1+
890-8046-4 MSD	CS 131	191 S1+	170 S1+
890-8046-5	CS 160	185 S1+	179 S1+
890-8046-6	CS 162	184 S1+	178 S1+
890-8046-7	CS 163	184 S1+	180 S1+
890-8046-8	CS 171	183 S1+	180 S1+
LCS 880-109028/2-A	Lab Control Sample	173 S1+	150 S1+
LCS 880-109114/2-A	Lab Control Sample	145 S1+	150 S1+
LCSD 880-109028/3-A	Lab Control Sample Dup	169 S1+	144 S1+
LCSD 880-109114/3-A	Lab Control Sample Dup	168 S1+	150 S1+
MB 880-109028/1-A	Method Blank	145 S1+	134 S1+
MB 880-109114/1-A	Method Blank	145 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109038/5-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109038

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/30/25 08:59	04/30/25 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/30/25 08:59*	*04/30/25 11:48*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*04/30/25 08:59*	*04/30/25 11:48*	*1*

Lab Sample ID: LCS 880-109038/1-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109038

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07624		mg/Kg		76	70 - 130		
Toluene			0.100	0.07255		mg/Kg		73	70 - 130		
Ethylbenzene			0.100	0.08029		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1610		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.07591		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-109038/2-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109038

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07300		mg/Kg		73	70 - 130	4	35
Toluene			0.100	0.06957		mg/Kg		70	70 - 130	4	35
Ethylbenzene			0.100	0.07750		mg/Kg		77	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1589		mg/Kg		79	70 - 130	1	35
o-Xylene			0.100	0.07633		mg/Kg		76	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-8045-A-6-C MS
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08344		mg/Kg		83	70 - 130		
Toluene	<0.00200	U	0.100	0.09413		mg/Kg		94	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

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

Lab Sample ID: 890-8045-A-6-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109031 — **Prep Batch: 109038**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1044		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2047		mg/Kg		102	70 - 130
o-Xylene	0.00349		0.100	0.1037		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-8045-A-6-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109031 — **Prep Batch: 109038**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08613		mg/Kg		86	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.1018		mg/Kg		102	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.100	0.1098		mg/Kg		110	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2118		mg/Kg		106	70 - 130	3	35
o-Xylene	0.00349		0.100	0.1068		mg/Kg		103	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: MB 880-109088/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109031 — **Prep Batch: 109088**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/30/25 12:47	04/30/25 22:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/30/25 12:47	04/30/25 22:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/30/25 12:47	04/30/25 22:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/30/25 12:47	04/30/25 22:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/30/25 12:47	04/30/25 22:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/30/25 12:47	04/30/25 22:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/30/25 12:47*	*04/30/25 22:46*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*04/30/25 12:47*	*04/30/25 22:46*	*1*

Lab Sample ID: LCS 880-109088/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109031 — **Prep Batch: 109088**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09795		mg/Kg		98	70 - 130
Toluene	0.100	0.09233		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09663		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1832		mg/Kg		92	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

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

Lab Sample ID: LCS 880-109088/1-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109088

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09293		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-109088/2-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09624		mg/Kg		96	70 - 130	2	35
Toluene			0.100	0.09276		mg/Kg		93	70 - 130	0	35
Ethylbenzene			0.100	0.09877		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1892		mg/Kg		95	70 - 130	3	35
o-Xylene			0.100	0.09572		mg/Kg		96	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-57498-A-1-B MS
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08409		mg/Kg		84	70 - 130		
Toluene	<0.00200	U	0.100	0.08530		mg/Kg		85	70 - 130		
Ethylbenzene	0.00331		0.100	0.08756		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1762		mg/Kg		88	70 - 130		
o-Xylene	<0.00200	U	0.100	0.08586		mg/Kg		84	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-57498-A-1-C MSD
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07125		mg/Kg		71	70 - 130	17	35
Toluene	<0.00200	U	0.100	0.07987		mg/Kg		80	70 - 130	7	35
Ethylbenzene	0.00331		0.100	0.08980		mg/Kg		86	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1799		mg/Kg		90	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.08349		mg/Kg		82	70 - 130	3	35

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

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

Lab Sample ID: 880-57498-A-1-C MSD
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109088

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

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

Lab Sample ID: MB 880-109028/1-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109028

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	04/30/25 08:28	05/01/25 17:45	1
o-Terphenyl	134	S1+	70 - 130	04/30/25 08:28	05/01/25 17:45	1

Lab Sample ID: LCS 880-109028/2-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109028

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1010		mg/Kg		101	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	173	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: LCSD 880-109028/3-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109028

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1014		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	981.2		mg/Kg		98	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	169	S1+	70 - 130
o-Terphenyl	144	S1+	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

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

Lab Sample ID: 890-8043-A-4-B MS
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1231		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1241		mg/Kg		124	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*144*	*S1+*	*70 - 130*
o-Terphenyl	*145*	*S1+*	*70 - 130*

Lab Sample ID: 890-8043-A-4-C MSD
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1259		mg/Kg		126	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1271		mg/Kg		127	70 - 130	2	20

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

Lab Sample ID: MB 880-109114/1-A
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109114

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/30/25 15:20	05/01/25 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/30/25 15:20	05/01/25 17:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/30/25 15:20	05/01/25 17:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 17:45*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 17:45*	*1*

Lab Sample ID: LCS 880-109114/2-A
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	943.7		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1089		mg/Kg		109	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

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

Lab Sample ID: LCS 880-109114/2-A
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109114

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: LCSD 880-109114/3-A
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109114

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	935.9		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1032		mg/Kg		103	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	168	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: 890-8046-4 MS
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: CS 131
Prep Type: Total/NA
Prep Batch: 109114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	995	1124		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	995	1311		mg/Kg		130	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	165	S1+	70 - 130
o-Terphenyl	172	S1+	70 - 130

Lab Sample ID: 890-8046-4 MSD
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: CS 131
Prep Type: Total/NA
Prep Batch: 109114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	995	1132		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	995	1226		mg/Kg		122	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	191	S1+	70 - 130
o-Terphenyl	170	S1+	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109079/1-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/01/25 13:45	1

Lab Sample ID: LCS 880-109079/2-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.9		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-109079/3-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.7		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 890-8044-A-6-C MS
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	119		252	383.5		mg/Kg		105	90 - 110		

Lab Sample ID: 890-8044-A-6-D MSD
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	119		252	374.1		mg/Kg		101	90 - 110	2	20

Lab Sample ID: MB 880-109092/1-A
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/30/25 21:58	1

Lab Sample ID: LCS 880-109092/2-A
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-109092/3-A
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	238.3		mg/Kg		95	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-8046-5 MS
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: CS 160
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	415		251	671.0		mg/Kg		102	90 - 110		

Lab Sample ID: 890-8046-5 MSD
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: CS 160
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	415		251	672.4		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

GC VOA

Analysis Batch: 109031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	8021B	109088
890-8046-2	CS 147	Total/NA	Solid	8021B	109088
890-8046-3	CS 148	Total/NA	Solid	8021B	109088
890-8046-4	CS 131	Total/NA	Solid	8021B	109088
890-8046-5	CS 160	Total/NA	Solid	8021B	109088
890-8046-6	CS 162	Total/NA	Solid	8021B	109088
890-8046-7	CS 163	Total/NA	Solid	8021B	109088
890-8046-8	CS 171	Total/NA	Solid	8021B	109038
MB 880-109038/5-A	Method Blank	Total/NA	Solid	8021B	109038
MB 880-109088/5-A	Method Blank	Total/NA	Solid	8021B	109088
LCS 880-109038/1-A	Lab Control Sample	Total/NA	Solid	8021B	109038
LCS 880-109088/1-A	Lab Control Sample	Total/NA	Solid	8021B	109088
LCSD 880-109038/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109038
LCSD 880-109088/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109088
880-57498-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	109088
880-57498-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109088
890-8045-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	109038
890-8045-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109038

Prep Batch: 109038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-8	CS 171	Total/NA	Solid	5035	
MB 880-109038/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109038/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109038/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8045-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8045-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 109088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	5035	
890-8046-2	CS 147	Total/NA	Solid	5035	
890-8046-3	CS 148	Total/NA	Solid	5035	
890-8046-4	CS 131	Total/NA	Solid	5035	
890-8046-5	CS 160	Total/NA	Solid	5035	
890-8046-6	CS 162	Total/NA	Solid	5035	
890-8046-7	CS 163	Total/NA	Solid	5035	
MB 880-109088/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109088/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109088/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57498-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-57498-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	Total BTEX	
890-8046-2	CS 147	Total/NA	Solid	Total BTEX	
890-8046-3	CS 148	Total/NA	Solid	Total BTEX	
890-8046-4	CS 131	Total/NA	Solid	Total BTEX	
890-8046-5	CS 160	Total/NA	Solid	Total BTEX	
890-8046-6	CS 162	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

GC VOA (Continued)

Analysis Batch: 109224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-7	CS 163	Total/NA	Solid	Total BTEX	
890-8046-8	CS 171	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	8015NM Prep	
890-8046-2	CS 147	Total/NA	Solid	8015NM Prep	
890-8046-3	CS 148	Total/NA	Solid	8015NM Prep	
MB 880-109028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8043-A-4-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8043-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 109114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-4	CS 131	Total/NA	Solid	8015NM Prep	
890-8046-5	CS 160	Total/NA	Solid	8015NM Prep	
890-8046-6	CS 162	Total/NA	Solid	8015NM Prep	
890-8046-7	CS 163	Total/NA	Solid	8015NM Prep	
890-8046-8	CS 171	Total/NA	Solid	8015NM Prep	
MB 880-109114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8046-4 MS	CS 131	Total/NA	Solid	8015NM Prep	
890-8046-4 MSD	CS 131	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	8015B NM	109028
890-8046-2	CS 147	Total/NA	Solid	8015B NM	109028
890-8046-3	CS 148	Total/NA	Solid	8015B NM	109028
MB 880-109028/1-A	Method Blank	Total/NA	Solid	8015B NM	109028
LCS 880-109028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109028
LCSD 880-109028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109028
890-8043-A-4-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109028
890-8043-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109028

Analysis Batch: 109160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-4	CS 131	Total/NA	Solid	8015B NM	109114
890-8046-5	CS 160	Total/NA	Solid	8015B NM	109114
890-8046-6	CS 162	Total/NA	Solid	8015B NM	109114
890-8046-7	CS 163	Total/NA	Solid	8015B NM	109114
890-8046-8	CS 171	Total/NA	Solid	8015B NM	109114
MB 880-109114/1-A	Method Blank	Total/NA	Solid	8015B NM	109114
LCS 880-109114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109114
LCSD 880-109114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109114
890-8046-4 MS	CS 131	Total/NA	Solid	8015B NM	109114

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

GC Semi VOA (Continued)

Analysis Batch: 109160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-4 MSD	CS 131	Total/NA	Solid	8015B NM	109114

Analysis Batch: 109287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	8015 NM	
890-8046-2	CS 147	Total/NA	Solid	8015 NM	
890-8046-3	CS 148	Total/NA	Solid	8015 NM	
890-8046-4	CS 131	Total/NA	Solid	8015 NM	
890-8046-5	CS 160	Total/NA	Solid	8015 NM	
890-8046-6	CS 162	Total/NA	Solid	8015 NM	
890-8046-7	CS 163	Total/NA	Solid	8015 NM	
890-8046-8	CS 171	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Soluble	Solid	DI Leach	
MB 880-109079/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109079/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109079/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8044-A-6-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8044-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 109092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-2	CS 147	Soluble	Solid	DI Leach	
890-8046-3	CS 148	Soluble	Solid	DI Leach	
890-8046-4	CS 131	Soluble	Solid	DI Leach	
890-8046-5	CS 160	Soluble	Solid	DI Leach	
890-8046-6	CS 162	Soluble	Solid	DI Leach	
890-8046-7	CS 163	Soluble	Solid	DI Leach	
890-8046-8	CS 171	Soluble	Solid	DI Leach	
MB 880-109092/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109092/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109092/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8046-5 MS	CS 160	Soluble	Solid	DI Leach	
890-8046-5 MSD	CS 160	Soluble	Solid	DI Leach	

Analysis Batch: 109101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Soluble	Solid	300.0	109079
MB 880-109079/1-A	Method Blank	Soluble	Solid	300.0	109079
LCS 880-109079/2-A	Lab Control Sample	Soluble	Solid	300.0	109079
LCSD 880-109079/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109079
890-8044-A-6-C MS	Matrix Spike	Soluble	Solid	300.0	109079
890-8044-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	109079

Analysis Batch: 109104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-2	CS 147	Soluble	Solid	300.0	109092

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

HPLC/IC (Continued)

Analysis Batch: 109104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-3	CS 148	Soluble	Solid	300.0	109092
890-8046-4	CS 131	Soluble	Solid	300.0	109092
890-8046-5	CS 160	Soluble	Solid	300.0	109092
890-8046-6	CS 162	Soluble	Solid	300.0	109092
890-8046-7	CS 163	Soluble	Solid	300.0	109092
890-8046-8	CS 171	Soluble	Solid	300.0	109092
MB 880-109092/1-A	Method Blank	Soluble	Solid	300.0	109092
LCS 880-109092/2-A	Lab Control Sample	Soluble	Solid	300.0	109092
LCSD 880-109092/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109092
890-8046-5 MS	CS 160	Soluble	Solid	300.0	109092
890-8046-5 MSD	CS 160	Soluble	Solid	300.0	109092

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 133
Date Collected: 04/28/25 10:41
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 04:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 04:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/02/25 00:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/02/25 00:03	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 17:23	CH	EET MID

Client Sample ID: CS 147
Date Collected: 04/28/25 10:49
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 05:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 05:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/02/25 00:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/02/25 00:18	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	04/30/25 23:38	CH	EET MID

Client Sample ID: CS 148
Date Collected: 04/28/25 10:52
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 05:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 05:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/02/25 00:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/02/25 00:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	04/30/25 23:45	CH	EET MID

Client Sample ID: CS 131
Date Collected: 04/28/25 10:39
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 05:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 05:49	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 131

Date Collected: 04/28/25 10:39
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109287	05/01/25 18:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 18:36	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	04/30/25 23:53	CH	EET MID

Client Sample ID: CS 160

Date Collected: 04/28/25 13:14
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 06:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 06:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/01/25 19:26	SM	EET MID
Total/NA	Prep	8015NM Prep			140.01 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 19:26	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	05/01/25 00:00	CH	EET MID

Client Sample ID: CS 162

Date Collected: 04/28/25 13:16
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 06:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 06:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/01/25 19:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 19:42	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	05/01/25 00:21	CH	EET MID

Client Sample ID: CS 163

Date Collected: 04/28/25 13:17
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 06:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 06:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/01/25 19:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 19:59	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 163

Date Collected: 04/28/25 13:17
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	05/01/25 00:28	CH	EET MID

Client Sample ID: CS 171

Date Collected: 04/28/25 13:20
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109038	04/30/25 08:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	04/30/25 19:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	04/30/25 19:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/01/25 20:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 20:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	05/01/25 00:50	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8046-1	CS 133	Solid	04/28/25 10:41	04/29/25 16:22	0.5
890-8046-2	CS 147	Solid	04/28/25 10:49	04/29/25 16:22	0.5
890-8046-3	CS 148	Solid	04/28/25 10:52	04/29/25 16:22	0.5
890-8046-4	CS 131	Solid	04/28/25 10:39	04/29/25 16:22	0.5
890-8046-5	CS 160	Solid	04/28/25 13:14	04/29/25 16:22	0.5
890-8046-6	CS 162	Solid	04/28/25 13:16	04/29/25 16:22	0.5
890-8046-7	CS 163	Solid	04/28/25 13:17	04/29/25 16:22	0.5
890-8046-8	CS 171	Solid	04/28/25 13:20	04/29/25 16:22	0.5

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Chain of Custody

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

890-8046 Chain of Custody

5/2/2025

Work Order No: _____

www.xenco.com Page ____1__ of ___1___

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com

Work Order Comments

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

Project Name:	Flatland FNR Frac Line	**Turn Around**	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Uriel Santillana	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TN007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.0
Total Containers:		Corrected Temperature:	5.8

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
CS133	S	4/28/25	1041	0.5'	C	1	X	X	X			
CS147			1049									
CS148			1052									
CS131			1039									
~~CS156~~			1058									
CS160			1314									
CS162			1316									
CS163			1317									
CS171	↓	↓	1320	↓	↓	↓	↓	↓	↓			

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Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		4/29/25 - 1508	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM
Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8046-1
SDG Number: 03D3836001

Login Number: 8046
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8046-1
SDG Number: 03D3836001

Login Number: 8046
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 04/30/25 08:04 AM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/6/2025 1:56:23 PM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8053-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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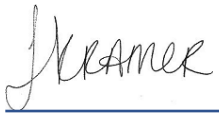
Eurofins Carlsbad

Job Notes

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

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

Authorization



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5/6/2025 1:56:23 PM

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

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 890-8053-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1 Eurofins Carlsbad

Job Narrative
890-8053-1

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

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

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

Receipt
The samples were received on 4/30/2025 4:55 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 0.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 156 (890-8053-1), CS 154 (890-8053-2), SW 01 (890-8053-3), SW 02 (890-8053-4), SW 03 (890-8053-5), CS 33 (890-8053-6), CS 64 (890-8053-7) and SW 04 (890-8053-8).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-109342 and analytical batch 880-109375 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS 154 (890-8053-2). 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.

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 156

Date Collected: 04/30/25 10:19
Date Received: 04/30/25 16:55
Sample Depth: 0.5

Lab Sample ID: 890-8053-1
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/02/25 13:32*	*05/05/25 17:53*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*05/02/25 13:32*	*05/05/25 17:53*	*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			05/05/25 17:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/25 02:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 02:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 02:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*05/01/25 10:11*	*05/06/25 02:24*	*1*
o-Terphenyl	*114*		*70 - 130*	*05/01/25 10:11*	*05/06/25 02:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**118**		10.1		mg/Kg			05/02/25 17:00	1

Client Sample ID: CS 154

Date Collected: 04/30/25 10:10
Date Received: 04/30/25 16:55
Sample Depth: 0.5

Lab Sample ID: 890-8053-2
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 13:32	05/05/25 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 154

Lab Sample ID: 890-8053-2
Matrix: Solid
Date Collected: 04/30/25 10:10
Date Received: 04/30/25 16:55
Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/05/25 18:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/06/25 09:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		05/01/25 10:11	05/06/25 09:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		05/01/25 10:11	05/06/25 09:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		05/01/25 10:11	05/06/25 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*120*		*70 - 130*	*05/01/25 10:11*	*05/06/25 09:57*	*1*
o-Terphenyl	*216*	*S1+*	*70 - 130*	*05/01/25 10:11*	*05/06/25 09:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**121**		10.0	mg/Kg			05/02/25 17:21	1

Client Sample ID: SW 01

Lab Sample ID: 890-8053-3
Matrix: Solid
Date Collected: 04/30/25 10:01
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/02/25 13:32	05/05/25 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:34*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/05/25 18:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/06/25 10:13	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: SW 01

Lab Sample ID: 890-8053-3
Matrix: Solid
Date Collected: 04/30/25 10:01
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/01/25 10:11	05/06/25 10:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/01/25 10:11	05/06/25 10:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/01/25 10:11	05/06/25 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:13*	*1*
o-Terphenyl	*114*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		10.1		mg/Kg			05/02/25 17:28	1

Client Sample ID: SW 02

Lab Sample ID: 890-8053-4
Matrix: Solid
Date Collected: 04/30/25 10:06
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:55*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:55*	*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			05/05/25 18:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/25 10:29	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 10:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 10:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:29*	*1*
o-Terphenyl	*111*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:29*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: SW 02

Lab Sample ID: 890-8053-4
Matrix: Solid
Date Collected: 04/30/25 10:06
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.6		9.96		mg/Kg			05/02/25 17:35	1

Client Sample ID: SW 03

Lab Sample ID: 890-8053-5
Matrix: Solid
Date Collected: 04/30/25 09:55
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/02/25 13:32	05/05/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:15*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/05/25 19:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/06/25 10:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/01/25 10:11	05/06/25 10:46	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/01/25 10:11	05/06/25 10:46	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/01/25 10:11	05/06/25 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:46*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.2		9.98		mg/Kg			05/02/25 17:43	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 33

Lab Sample ID: 890-8053-6
Matrix: Solid
Date Collected: 04/30/25 12:55
Date Received: 04/30/25 16:55
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:35*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:35*	*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			05/05/25 19:35	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/06/25 11:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/01/25 10:11	05/06/25 11:02	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/01/25 10:11	05/06/25 11:02	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/01/25 10:11	05/06/25 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:02*	*1*
o-Terphenyl	*111*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**587**		9.92		mg/Kg			05/02/25 20:48	1

Client Sample ID: CS 64

Lab Sample ID: 890-8053-7
Matrix: Solid
Date Collected: 04/30/25 12:57
Date Received: 04/30/25 16:55
Sample Depth: 2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/02/25 13:32	05/05/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:56*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 64

Lab Sample ID: 890-8053-7
Matrix: Solid
Date Collected: 04/30/25 12:57
Date Received: 04/30/25 16:55
Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/05/25 19:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/06/25 11:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/01/25 10:11	05/06/25 11:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/01/25 10:11	05/06/25 11:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/01/25 10:11	05/06/25 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*116*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:18*	*1*
o-Terphenyl	*112*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**321**		10.1	mg/Kg			05/02/25 20:55	1

Client Sample ID: SW 04

Lab Sample ID: 890-8053-8
Matrix: Solid
Date Collected: 04/30/25 12:46
Date Received: 04/30/25 16:55
Sample Depth: 0-2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/02/25 13:32	05/05/25 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*05/02/25 13:32*	*05/05/25 20:16*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/02/25 13:32*	*05/05/25 20:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/05/25 20:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/06/25 11:33	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: SW 04

Lab Sample ID: 890-8053-8
Matrix: Solid
Date Collected: 04/30/25 12:46
Date Received: 04/30/25 16:55
Sample Depth: 0-2'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 11:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 11:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:33*	*1*
o-Terphenyl	*111*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1880**		49.7		mg/Kg			05/02/25 21:02	5

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-57645-A-1-A MS	Matrix Spike	97	97
880-57645-A-1-B MSD	Matrix Spike Duplicate	104	100
890-8053-1	CS 156	112	116
890-8053-2	CS 154	115	116
890-8053-3	SW 01	120	111
890-8053-4	SW 02	127	113
890-8053-5	SW 03	115	111
890-8053-6	CS 33	117	111
890-8053-7	CS 64	121	114
890-8053-8	SW 04	121	107
LCS 880-109342/1-A	Lab Control Sample	93	95
LCSD 880-109342/2-A	Lab Control Sample Dup	104	97
MB 880-109342/5-A	Method Blank	141 S1+	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-57572-A-11-B MS	Matrix Spike	100	103
880-57572-A-11-C MSD	Matrix Spike Duplicate	98	103
890-8053-1	CS 156	116	114
890-8053-2	CS 154	120	216 S1+
890-8053-3	SW 01	117	114
890-8053-4	SW 02	114	111
890-8053-5	SW 03	115	107
890-8053-6	CS 33	116	111
890-8053-7	CS 64	116	112
890-8053-8	SW 04	112	111
LCS 880-109177/2-A	Lab Control Sample	128	117
LCSD 880-109177/3-A	Lab Control Sample Dup	113	117
MB 880-109177/1-A	Method Blank	87	86

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109342/5-A
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109342

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 13:32	05/05/25 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*05/02/25 13:32*	*05/05/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/02/25 13:32*	*05/05/25 11:49*	*1*

Lab Sample ID: LCS 880-109342/1-A
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09715		mg/Kg		97	70 - 130		
Toluene			0.100	0.08587		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.09496		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1820		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.09422		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-109342/2-A
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109342

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1044		mg/Kg		104	70 - 130	7	35
Toluene			0.100	0.09672		mg/Kg		97	70 - 130	12	35
Ethylbenzene			0.100	0.1092		mg/Kg		109	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.2090		mg/Kg		104	70 - 130	14	35
o-Xylene			0.100	0.1064		mg/Kg		106	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-57645-A-1-A MS
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09876		mg/Kg		99	70 - 130		
Toluene	<0.00200	U	0.100	0.08809		mg/Kg		88	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

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

Lab Sample ID: 880-57645-A-1-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109375 — **Prep Batch: 109342**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09286		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1803		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U	0.100	0.09098		mg/Kg		91	70 - 130

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

Lab Sample ID: 880-57645-A-1-B MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109375 — **Prep Batch: 109342**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1010		mg/Kg		101	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09347		mg/Kg		93	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.100	0.1011		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1969		mg/Kg		98	70 - 130	9	35
o-Xylene	<0.00200	U	0.100	0.09749		mg/Kg		97	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-109177/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109398 — **Prep Batch: 109177**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/01/25 10:11	05/05/25 21:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/01/25 10:11	05/05/25 21:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/01/25 10:11	05/05/25 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*05/01/25 10:11*	*05/05/25 21:32*	*1*
o-Terphenyl	*86*		*70 - 130*	*05/01/25 10:11*	*05/05/25 21:32*	*1*

Lab Sample ID: LCS 880-109177/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109398 — **Prep Batch: 109177**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	911.3		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	919.3		mg/Kg		92	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

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

Lab Sample ID: LCS 880-109177/2-A
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109177

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: LCSD 880-109177/3-A
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109177

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	923.3		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	993.5		mg/Kg		99	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 880-57572-A-11-B MS
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109177

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	790.4		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	837.2		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-57572-A-11-C MSD
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109177

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	788.4		mg/Kg		78	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	830.6		mg/Kg		83	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	103		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109293/1-A
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/02/25 16:39	1

Lab Sample ID: LCS 880-109293/2-A
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.0		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-109293/3-A
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.3		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-8053-1 MS
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: CS 156
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	118		252	381.3		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8053-1 MSD
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: CS 156
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	118		252	380.6		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

GC VOA

Prep Batch: 109342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	5035	
890-8053-2	CS 154	Total/NA	Solid	5035	
890-8053-3	SW 01	Total/NA	Solid	5035	
890-8053-4	SW 02	Total/NA	Solid	5035	
890-8053-5	SW 03	Total/NA	Solid	5035	
890-8053-6	CS 33	Total/NA	Solid	5035	
890-8053-7	CS 64	Total/NA	Solid	5035	
890-8053-8	SW 04	Total/NA	Solid	5035	
MB 880-109342/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109342/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109342/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57645-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-57645-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	8021B	109342
890-8053-2	CS 154	Total/NA	Solid	8021B	109342
890-8053-3	SW 01	Total/NA	Solid	8021B	109342
890-8053-4	SW 02	Total/NA	Solid	8021B	109342
890-8053-5	SW 03	Total/NA	Solid	8021B	109342
890-8053-6	CS 33	Total/NA	Solid	8021B	109342
890-8053-7	CS 64	Total/NA	Solid	8021B	109342
890-8053-8	SW 04	Total/NA	Solid	8021B	109342
MB 880-109342/5-A	Method Blank	Total/NA	Solid	8021B	109342
LCS 880-109342/1-A	Lab Control Sample	Total/NA	Solid	8021B	109342
LCSD 880-109342/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109342
880-57645-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	109342
880-57645-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109342

Analysis Batch: 109493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	Total BTEX	
890-8053-2	CS 154	Total/NA	Solid	Total BTEX	
890-8053-3	SW 01	Total/NA	Solid	Total BTEX	
890-8053-4	SW 02	Total/NA	Solid	Total BTEX	
890-8053-5	SW 03	Total/NA	Solid	Total BTEX	
890-8053-6	CS 33	Total/NA	Solid	Total BTEX	
890-8053-7	CS 64	Total/NA	Solid	Total BTEX	
890-8053-8	SW 04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	8015NM Prep	
890-8053-2	CS 154	Total/NA	Solid	8015NM Prep	
890-8053-3	SW 01	Total/NA	Solid	8015NM Prep	
890-8053-4	SW 02	Total/NA	Solid	8015NM Prep	
890-8053-5	SW 03	Total/NA	Solid	8015NM Prep	
890-8053-6	CS 33	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

GC Semi VOA (Continued)

Prep Batch: 109177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-7	CS 64	Total/NA	Solid	8015NM Prep	
890-8053-8	SW 04	Total/NA	Solid	8015NM Prep	
MB 880-109177/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109177/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109177/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57572-A-11-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57572-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	8015B NM	109177
890-8053-2	CS 154	Total/NA	Solid	8015B NM	109177
890-8053-3	SW 01	Total/NA	Solid	8015B NM	109177
890-8053-4	SW 02	Total/NA	Solid	8015B NM	109177
890-8053-5	SW 03	Total/NA	Solid	8015B NM	109177
890-8053-6	CS 33	Total/NA	Solid	8015B NM	109177
890-8053-7	CS 64	Total/NA	Solid	8015B NM	109177
890-8053-8	SW 04	Total/NA	Solid	8015B NM	109177
MB 880-109177/1-A	Method Blank	Total/NA	Solid	8015B NM	109177
LCS 880-109177/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109177
LCSD 880-109177/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109177
880-57572-A-11-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109177
880-57572-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109177

Analysis Batch: 109553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	8015 NM	
890-8053-2	CS 154	Total/NA	Solid	8015 NM	
890-8053-3	SW 01	Total/NA	Solid	8015 NM	
890-8053-4	SW 02	Total/NA	Solid	8015 NM	
890-8053-5	SW 03	Total/NA	Solid	8015 NM	
890-8053-6	CS 33	Total/NA	Solid	8015 NM	
890-8053-7	CS 64	Total/NA	Solid	8015 NM	
890-8053-8	SW 04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Soluble	Solid	DI Leach	
890-8053-2	CS 154	Soluble	Solid	DI Leach	
890-8053-3	SW 01	Soluble	Solid	DI Leach	
890-8053-4	SW 02	Soluble	Solid	DI Leach	
890-8053-5	SW 03	Soluble	Solid	DI Leach	
890-8053-6	CS 33	Soluble	Solid	DI Leach	
890-8053-7	CS 64	Soluble	Solid	DI Leach	
890-8053-8	SW 04	Soluble	Solid	DI Leach	
MB 880-109293/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109293/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109293/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8053-1 MS	CS 156	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

HPLC/IC (Continued)

Leach Batch: 109293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1 MSD	CS 156	Soluble	Solid	DI Leach	

Analysis Batch: 109323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Soluble	Solid	300.0	109293
890-8053-2	CS 154	Soluble	Solid	300.0	109293
890-8053-3	SW 01	Soluble	Solid	300.0	109293
890-8053-4	SW 02	Soluble	Solid	300.0	109293
890-8053-5	SW 03	Soluble	Solid	300.0	109293
890-8053-6	CS 33	Soluble	Solid	300.0	109293
890-8053-7	CS 64	Soluble	Solid	300.0	109293
890-8053-8	SW 04	Soluble	Solid	300.0	109293
MB 880-109293/1-A	Method Blank	Soluble	Solid	300.0	109293
LCS 880-109293/2-A	Lab Control Sample	Soluble	Solid	300.0	109293
LCSD 880-109293/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109293
890-8053-1 MS	CS 156	Soluble	Solid	300.0	109293
890-8053-1 MSD	CS 156	Soluble	Solid	300.0	109293

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 156

Date Collected: 04/30/25 10:19
Date Received: 04/30/25 16:55

Lab Sample ID: 890-8053-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 17:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 02:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 02:24	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:00	SMC	EET MID

Client Sample ID: CS 154

Date Collected: 04/30/25 10:10
Date Received: 04/30/25 16:55

Lab Sample ID: 890-8053-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 09:57	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:21	SMC	EET MID

Client Sample ID: SW 01

Date Collected: 04/30/25 10:01
Date Received: 04/30/25 16:55

Lab Sample ID: 890-8053-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 10:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 10:13	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:28	SMC	EET MID

Client Sample ID: SW 02

Date Collected: 04/30/25 10:06
Date Received: 04/30/25 16:55

Lab Sample ID: 890-8053-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 18:55	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: SW 02

Lab Sample ID: 890-8053-4
Matrix: Solid
Date Collected: 04/30/25 10:06
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109553	05/06/25 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 10:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:35	SMC	EET MID

Client Sample ID: SW 03

Lab Sample ID: 890-8053-5
Matrix: Solid
Date Collected: 04/30/25 09:55
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 19:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 10:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 10:46	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:43	SMC	EET MID

Client Sample ID: CS 33

Lab Sample ID: 890-8053-6
Matrix: Solid
Date Collected: 04/30/25 12:55
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 19:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 11:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 11:02	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 20:48	SMC	EET MID

Client Sample ID: CS 64

Lab Sample ID: 890-8053-7
Matrix: Solid
Date Collected: 04/30/25 12:57
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 19:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 11:18	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 64

Lab Sample ID: 890-8053-7
Matrix: Solid
Date Collected: 04/30/25 12:57
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 20:55	SMC	EET MID

Client Sample ID: SW 04

Lab Sample ID: 890-8053-8
Matrix: Solid
Date Collected: 04/30/25 12:46
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 20:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 11:33	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		5			109323	05/02/25 21:02	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8053-1	CS 156	Solid	04/30/25 10:19	04/30/25 16:55	0.5
890-8053-2	CS 154	Solid	04/30/25 10:10	04/30/25 16:55	0.5
890-8053-3	SW 01	Solid	04/30/25 10:01	04/30/25 16:55	0-0.5
890-8053-4	SW 02	Solid	04/30/25 10:06	04/30/25 16:55	0-0.5
890-8053-5	SW 03	Solid	04/30/25 09:55	04/30/25 16:55	0-0.5
890-8053-6	CS 33	Solid	04/30/25 12:55	04/30/25 16:55	2'
890-8053-7	CS 64	Solid	04/30/25 12:57	04/30/25 16:55	2'
890-8053-8	SW 04	Solid	04/30/25 12:46	04/30/25 16:55	0-2'

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8053-1
SDG Number: 03D3836001

Login Number: 8053
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8053-1
SDG Number: 03D3836001

Login Number: 8053
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/02/25 08:48 AM

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

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Flatland FNR Frac Line
03D3836001

JOB NUMBER

890-8092-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

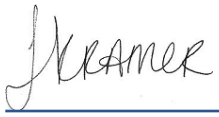
Eurofins Carlsbad

Job Notes

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

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

Authorization



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

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Laboratory Job ID: 890-8092-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 890-8092-1
Project: Flatland FNR Frac Line

Job ID: 890-8092-1 Eurofins Carlsbad

Job Narrative
890-8092-1

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

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

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

Receipt
The samples were received on 5/5/2025 1:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS120 (890-8092-1), CS66 (890-8092-2), CS134 (890-8092-3), CS135 (890-8092-4), CS136 (890-8092-5), CS142 (890-8092-6), CS129 (890-8092-7), CS128 (890-8092-8), CS130 (890-8092-9) and CS132 (890-8092-10).

The following samples were listed on the Chain of Custody (COC); however, no samples were received: CS120 (890-8092-1), CS66 (890-8092-2), CS134 (890-8092-3), CS135 (890-8092-4), CS136 (890-8092-5), CS142 (890-8092-6), CS129 (890-8092-7), CS128 (890-8092-8), CS130 (890-8092-9) and CS132 (890-8092-10).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-109485 and analytical batch 880-109481 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109483 and analytical batch 880-109714 was outside the upper control limits.

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

HPLC/IC
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: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS120

Lab Sample ID: 890-8092-1
Matrix: Solid
Date Collected: 05/01/25 10:05
Date Received: 05/05/25 13:57
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:39	05/06/25 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:49*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 10:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 10:46	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 10:46	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/06/25 08:34*	*05/08/25 10:46*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/06/25 08:34*	*05/08/25 10:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		10.1		mg/Kg			05/07/25 01:55	1

Client Sample ID: CS66

Lab Sample ID: 890-8092-2
Matrix: Solid
Date Collected: 05/01/25 10:47
Date Received: 05/05/25 13:57
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/06/25 08:39*	*05/06/25 12:10*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/06/25 08:39*	*05/06/25 12:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS66

Lab Sample ID: 890-8092-2
Matrix: Solid
Date Collected: 05/01/25 10:47
Date Received: 05/05/25 13:57
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/08/25 11:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 11:01	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 11:01	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:01*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		10.0		mg/Kg			05/07/25 02:02	1

Client Sample ID: CS134

Lab Sample ID: 890-8092-3
Matrix: Solid
Date Collected: 05/01/25 13:15
Date Received: 05/05/25 13:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/06/25 08:39	05/06/25 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/06/25 08:39*	*05/06/25 12:30*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/06/25 08:39*	*05/06/25 12:30*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/08/25 11:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 11:16	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 11:16	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:16*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS134

Lab Sample ID: 890-8092-3
Matrix: Solid
Date Collected: 05/01/25 13:15
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		9.98		mg/Kg			05/07/25 02:09	1

Client Sample ID: CS135

Lab Sample ID: 890-8092-4
Matrix: Solid
Date Collected: 05/01/25 13:10
Date Received: 05/05/25 13:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/06/25 08:39*	*05/06/25 13:52*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/06/25 08:39*	*05/06/25 13:52*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/08/25 11:31	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/06/25 08:34	05/08/25 11:31	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/06/25 08:34	05/08/25 11:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/06/25 08:34	05/08/25 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:31*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		9.98		mg/Kg			05/07/25 02:16	1

Client Sample ID: CS142

Lab Sample ID: 890-8092-6
Matrix: Solid
Date Collected: 05/01/25 13:03
Date Received: 05/05/25 13:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 14:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 14:13	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/06/25 08:39	05/06/25 14:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 14:13	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS142

Lab Sample ID: 890-8092-6
Matrix: Solid
Date Collected: 05/01/25 13:03
Date Received: 05/05/25 13:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 14:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:13*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:13*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 11:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 11:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 11:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:46*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**313**		9.92		mg/Kg			05/07/25 02:23	1

Client Sample ID: CS129

Lab Sample ID: 890-8092-7
Matrix: Solid
Date Collected: 05/01/25 13:54
Date Received: 05/05/25 13:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:33*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:33*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 12:01	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS129

Lab Sample ID: 890-8092-7
Matrix: Solid
Date Collected: 05/01/25 13:54
Date Received: 05/05/25 13:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 12:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 12:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:01*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		9.92		mg/Kg			05/07/25 02:44	1

Client Sample ID: CS128

Lab Sample ID: 890-8092-8
Matrix: Solid
Date Collected: 05/01/25 13:58
Date Received: 05/05/25 13:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/25 08:39	05/06/25 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:53*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:53*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/08/25 12:15	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 12:15	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 12:15	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:15*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**269**		10.1		mg/Kg			05/07/25 02:52	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS130

Lab Sample ID: 890-8092-9
Matrix: Solid
Date Collected: 05/01/25 13:46
Date Received: 05/05/25 13:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:03*	*1*

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/08/25 12:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 12:30	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 12:30	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:30*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**364**		10.1		mg/Kg			05/07/25 03:13	1

Client Sample ID: CS132

Lab Sample ID: 890-8092-10
Matrix: Solid
Date Collected: 05/01/25 13:49
Date Received: 05/05/25 13:57
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:39	05/06/25 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:24*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS132

Date Collected: 05/01/25 13:49
Date Received: 05/05/25 13:57
Sample Depth: 1

Lab Sample ID: 890-8092-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 12:45	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 12:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 12:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:45*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**233**		9.94		mg/Kg			05/07/25 03:20	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8092-1	CS120	90	97
890-8092-1 MS	CS120	106	87
890-8092-1 MSD	CS120	111	104
890-8092-2	CS66	99	78
890-8092-3	CS134	90	86
890-8092-4	CS135	92	83
890-8092-6	CS142	87	84
890-8092-7	CS129	92	73
890-8092-8	CS128	94	83
890-8092-9	CS130	92	94
890-8092-10	CS132	93	96
LCS 880-109485/1-A	Lab Control Sample	103	95
LCSD 880-109485/2-A	Lab Control Sample Dup	108	88
MB 880-109485/5-A	Method Blank	85	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57666-A-1-H MS	Matrix Spike	98	83
880-57666-A-1-I MSD	Matrix Spike Duplicate	96	82
890-8092-1	CS120	98	89
890-8092-2	CS66	99	90
890-8092-3	CS134	97	89
890-8092-4	CS135	98	91
890-8092-6	CS142	99	91
890-8092-7	CS129	100	90
890-8092-8	CS128	103	93
890-8092-9	CS130	99	89
890-8092-10	CS132	102	93
LCS 880-109483/2-A	Lab Control Sample	111	94
LCSD 880-109483/3-A	Lab Control Sample Dup	98	82
MB 880-109483/1-A	Method Blank	140 S1+	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109485/5-A
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109485

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/25 08:39	05/06/25 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:28*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:28*	*1*

Lab Sample ID: LCS 880-109485/1-A
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109485

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1160		mg/Kg		116	70 - 130		
Toluene			0.100	0.1089		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1330	*+	mg/Kg		133	70 - 130		
m-Xylene & p-Xylene			0.200	0.2508		mg/Kg		125	70 - 130		
o-Xylene			0.100	0.1251		mg/Kg		125	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-109485/2-A
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109485

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1102		mg/Kg		110	70 - 130	5	35
Toluene			0.100	0.1036		mg/Kg		104	70 - 130	5	35
Ethylbenzene			0.100	0.1311	*+	mg/Kg		131	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2496		mg/Kg		125	70 - 130	0	35
o-Xylene			0.100	0.1247		mg/Kg		125	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 890-8092-1 MS
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: CS120
Prep Type: Total/NA
Prep Batch: 109485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.100	0.09838		mg/Kg		98	70 - 130		
Toluene	<0.00198	U	0.100	0.09636		mg/Kg		96	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

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

Lab Sample ID: 890-8092-1 MS
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: CS120
Prep Type: Total/NA
Prep Batch: 109485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U *+	0.100	0.1131		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2180		mg/Kg		109	70 - 130
o-Xylene	<0.00198	U	0.100	0.1088		mg/Kg		109	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-8092-1 MSD
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: CS120
Prep Type: Total/NA
Prep Batch: 109485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1113		mg/Kg		111	70 - 130	12	35
Toluene	<0.00198	U	0.100	0.09622		mg/Kg		96	70 - 130	0	35
Ethylbenzene	<0.00198	U *+	0.100	0.1070		mg/Kg		107	70 - 130	6	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2043		mg/Kg		102	70 - 130	6	35
o-Xylene	<0.00198	U	0.100	0.1196		mg/Kg		120	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

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

Lab Sample ID: MB 880-109483/1-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 02:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 02:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*
o-Terphenyl	*124*		*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*

Lab Sample ID: LCS 880-109483/2-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1034		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1027		mg/Kg		103	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

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

Lab Sample ID: LCS 880-109483/2-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109483

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-109483/3-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	922.8		mg/Kg		92	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	881.2		mg/Kg		88	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-57666-A-1-H MS
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	909.6		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	875.2		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-57666-A-1-I MSD
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	898.4		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	888.5		mg/Kg		89	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109537/1-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/07/25 00:23	1

Lab Sample ID: LCS 880-109537/2-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.1		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-109537/3-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.6		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-8092-6 MS
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: CS142
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	313		248	573.0		mg/Kg		105	90 - 110		

Lab Sample ID: 890-8092-6 MSD
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: CS142
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	313		248	574.0		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

GC VOA

Analysis Batch: 109481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	8021B	109485
890-8092-2	CS66	Total/NA	Solid	8021B	109485
890-8092-3	CS134	Total/NA	Solid	8021B	109485
890-8092-4	CS135	Total/NA	Solid	8021B	109485
890-8092-6	CS142	Total/NA	Solid	8021B	109485
890-8092-7	CS129	Total/NA	Solid	8021B	109485
890-8092-8	CS128	Total/NA	Solid	8021B	109485
890-8092-9	CS130	Total/NA	Solid	8021B	109485
890-8092-10	CS132	Total/NA	Solid	8021B	109485
MB 880-109485/5-A	Method Blank	Total/NA	Solid	8021B	109485
LCS 880-109485/1-A	Lab Control Sample	Total/NA	Solid	8021B	109485
LCSD 880-109485/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109485
890-8092-1 MS	CS120	Total/NA	Solid	8021B	109485
890-8092-1 MSD	CS120	Total/NA	Solid	8021B	109485

Prep Batch: 109485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	5035	
890-8092-2	CS66	Total/NA	Solid	5035	
890-8092-3	CS134	Total/NA	Solid	5035	
890-8092-4	CS135	Total/NA	Solid	5035	
890-8092-6	CS142	Total/NA	Solid	5035	
890-8092-7	CS129	Total/NA	Solid	5035	
890-8092-8	CS128	Total/NA	Solid	5035	
890-8092-9	CS130	Total/NA	Solid	5035	
890-8092-10	CS132	Total/NA	Solid	5035	
MB 880-109485/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109485/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109485/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8092-1 MS	CS120	Total/NA	Solid	5035	
890-8092-1 MSD	CS120	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 109483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	8015NM Prep	
890-8092-2	CS66	Total/NA	Solid	8015NM Prep	
890-8092-3	CS134	Total/NA	Solid	8015NM Prep	
890-8092-4	CS135	Total/NA	Solid	8015NM Prep	
890-8092-6	CS142	Total/NA	Solid	8015NM Prep	
890-8092-7	CS129	Total/NA	Solid	8015NM Prep	
890-8092-8	CS128	Total/NA	Solid	8015NM Prep	
890-8092-9	CS130	Total/NA	Solid	8015NM Prep	
890-8092-10	CS132	Total/NA	Solid	8015NM Prep	
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57666-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57666-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

GC Semi VOA

Analysis Batch: 109714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	8015B NM	109483
890-8092-2	CS66	Total/NA	Solid	8015B NM	109483
890-8092-3	CS134	Total/NA	Solid	8015B NM	109483
890-8092-4	CS135	Total/NA	Solid	8015B NM	109483
890-8092-6	CS142	Total/NA	Solid	8015B NM	109483
890-8092-7	CS129	Total/NA	Solid	8015B NM	109483
890-8092-8	CS128	Total/NA	Solid	8015B NM	109483
890-8092-9	CS130	Total/NA	Solid	8015B NM	109483
890-8092-10	CS132	Total/NA	Solid	8015B NM	109483
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015B NM	109483
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109483
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109483
880-57666-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	109483
880-57666-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109483

Analysis Batch: 109810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	8015 NM	
890-8092-2	CS66	Total/NA	Solid	8015 NM	
890-8092-3	CS134	Total/NA	Solid	8015 NM	
890-8092-4	CS135	Total/NA	Solid	8015 NM	
890-8092-6	CS142	Total/NA	Solid	8015 NM	
890-8092-7	CS129	Total/NA	Solid	8015 NM	
890-8092-8	CS128	Total/NA	Solid	8015 NM	
890-8092-9	CS130	Total/NA	Solid	8015 NM	
890-8092-10	CS132	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Soluble	Solid	DI Leach	
890-8092-2	CS66	Soluble	Solid	DI Leach	
890-8092-3	CS134	Soluble	Solid	DI Leach	
890-8092-4	CS135	Soluble	Solid	DI Leach	
890-8092-6	CS142	Soluble	Solid	DI Leach	
890-8092-7	CS129	Soluble	Solid	DI Leach	
890-8092-8	CS128	Soluble	Solid	DI Leach	
890-8092-9	CS130	Soluble	Solid	DI Leach	
890-8092-10	CS132	Soluble	Solid	DI Leach	
MB 880-109537/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109537/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109537/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8092-6 MS	CS142	Soluble	Solid	DI Leach	
890-8092-6 MSD	CS142	Soluble	Solid	DI Leach	

Analysis Batch: 109555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Soluble	Solid	300.0	109537
890-8092-2	CS66	Soluble	Solid	300.0	109537
890-8092-3	CS134	Soluble	Solid	300.0	109537

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

HPLC/IC (Continued)

Analysis Batch: 109555 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-4	CS135	Soluble	Solid	300.0	109537
890-8092-6	CS142	Soluble	Solid	300.0	109537
890-8092-7	CS129	Soluble	Solid	300.0	109537
890-8092-8	CS128	Soluble	Solid	300.0	109537
890-8092-9	CS130	Soluble	Solid	300.0	109537
890-8092-10	CS132	Soluble	Solid	300.0	109537
MB 880-109537/1-A	Method Blank	Soluble	Solid	300.0	109537
LCS 880-109537/2-A	Lab Control Sample	Soluble	Solid	300.0	109537
LCSD 880-109537/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109537
890-8092-6 MS	CS142	Soluble	Solid	300.0	109537
890-8092-6 MSD	CS142	Soluble	Solid	300.0	109537

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS120

Date Collected: 05/01/25 10:05
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 10:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 10:46	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 01:55	CH	EET MID

Client Sample ID: CS66

Date Collected: 05/01/25 10:47
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 12:10	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 11:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 11:01	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:02	CH	EET MID

Client Sample ID: CS134

Date Collected: 05/01/25 13:15
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 12:30	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 11:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:09	CH	EET MID

Client Sample ID: CS135

Date Collected: 05/01/25 13:10
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 13:52	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 11:31	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS135
Date Collected: 05/01/25 13:10
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:16	CH	EET MID

Client Sample ID: CS142
Date Collected: 05/01/25 13:03
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 14:13	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 11:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 11:46	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:23	CH	EET MID

Client Sample ID: CS129
Date Collected: 05/01/25 13:54
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 14:33	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 12:01	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:44	CH	EET MID

Client Sample ID: CS128
Date Collected: 05/01/25 13:58
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 14:53	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 12:15	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:52	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS130

Date Collected: 05/01/25 13:46
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 17:03	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 12:30	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:13	CH	EET MID

Client Sample ID: CS132

Date Collected: 05/01/25 13:49
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 17:24	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 12:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 12:45	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:20	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	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.

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8092-1	CS120	Solid	05/01/25 10:05	05/05/25 13:57	2
890-8092-2	CS66	Solid	05/01/25 10:47	05/05/25 13:57	2
890-8092-3	CS134	Solid	05/01/25 13:15	05/05/25 13:57	1
890-8092-4	CS135	Solid	05/01/25 13:10	05/05/25 13:57	1
890-8092-6	CS142	Solid	05/01/25 13:03	05/05/25 13:57	1
890-8092-7	CS129	Solid	05/01/25 13:54	05/05/25 13:57	1
890-8092-8	CS128	Solid	05/01/25 13:58	05/05/25 13:57	1
890-8092-9	CS130	Solid	05/01/25 13:46	05/05/25 13:57	1
890-8092-10	CS132	Solid	05/01/25 13:49	05/05/25 13:57	1

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Chain of Custody

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

890-8092 Chain of Custody

1-1

5/9/2025

www.xenco.com f 1

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895 Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com	

Work Order Comments

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

Project Name:	Flatland FNR Frac Line	**Turn Around**	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	~~Uriel Santillana~~	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	T-Neoco
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.4
Total Containers:		Corrected Temperature:	5.2

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
~~CS120~~ CS120	S	5/1/25	1005	2'	C	1		X	X	X			
CS 66			1047	2'									
CS134			1315	1'									
CS135			1310	1'									
~~CS136~~			1306	1'									
CS142			1303	1'									
CS 129			1354										
CS128			1358										
CS130			1346										
CS132	↓	↓	1349	↓	↓	↓		↓	↓	↓			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1:57 5/5			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8092-1
SDG Number: 03D3836001

Login Number: 8092
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8092-1
SDG Number: 03D3836001

Login Number: 8092
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/06/25 08:23 AM

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

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/12/2025 12:23:35 PM

JOB DESCRIPTION

Flatland FNR FRAC LINE
03D3836001

JOB NUMBER

890-8093-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

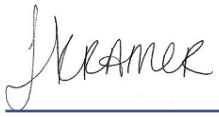
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
5/12/2025 12:23:35 PM

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

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Laboratory Job ID: 890-8093-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 890-8093-1
Project: Flatland FNR FRAC LINE

Job ID: 890-8093-1 Eurofins Carlsbad

Job Narrative
890-8093-1

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

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

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

Receipt
The samples were received on 5/5/2025 3:24 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 5.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 123 (890-8093-1), CS 124 (890-8093-2), CS 125 (890-8093-3), CS 126 (890-8093-4), CS 118 (890-8093-5), CS 119 (890-8093-6), CS 143 (890-8093-7), CS 144 (890-8093-8), CS 149 (890-8093-9), CS 116 (890-8093-10), CS 117 (890-8093-11), CS 127 (890-8093-12), CS 141 (890-8093-13), CS 112 (890-8093-14), CS 113 (890-8093-15), CS 114 (890-8093-16) and CS 115 (890-8093-17).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-109482 recovered under the lower control limit for Toluene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS 115 (890-8093-17). 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.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109483 and analytical batch 880-109714 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 115 (890-8093-17), (LCS 880-109484/2-A) and (890-8093-A-11-B MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 117 (890-8093-11) and CS 113 (890-8093-15). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-109711 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-109711/32).

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-109552 and analytical batch 880-109561 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Carlsbad

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 123

Lab Sample ID: 890-8093-1
Matrix: Solid
Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/06/25 08:45*	*05/06/25 12:54*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/06/25 08:45*	*05/06/25 12:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/06/25 12:54	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 13:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 13:01	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 13:01	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:01*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**183**		9.98		mg/Kg			05/07/25 03:27	1

Client Sample ID: CS 124

Lab Sample ID: 890-8093-2
Matrix: Solid
Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/06/25 08:45*	*05/06/25 13:15*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 124

Lab Sample ID: 890-8093-2
Matrix: Solid
Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/06/25 08:45*	*05/06/25 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/06/25 13:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/25 13:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 13:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 13:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:15*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**253**		10.0	mg/Kg			05/07/25 03:34	1

Client Sample ID: CS 125

Lab Sample ID: 890-8093-3
Matrix: Solid
Date Collected: 05/02/25 09:30
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/06/25 08:45	05/06/25 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/06/25 08:45*	*05/06/25 13:35*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/06/25 08:45*	*05/06/25 13:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/06/25 13:35	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/25 13:30	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 125

Lab Sample ID: 890-8093-3
Matrix: Solid
Date Collected: 05/02/25 09:30
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 13:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 13:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:30*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		9.90		mg/Kg			05/07/25 03:41	1

Client Sample ID: CS 126

Lab Sample ID: 890-8093-4
Matrix: Solid
Date Collected: 05/02/25 09:34
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/06/25 08:45	05/06/25 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/06/25 08:45*	*05/06/25 14:57*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/06/25 08:45*	*05/06/25 14:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/06/25 14:57	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 13:47	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 13:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 13:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:47*	*1*
o-Terphenyl	*86*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:47*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 126

Lab Sample ID: 890-8093-4
Matrix: Solid
Date Collected: 05/02/25 09:34
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		9.90		mg/Kg			05/07/25 03:48	1

Client Sample ID: CS 118

Lab Sample ID: 890-8093-5
Matrix: Solid
Date Collected: 05/02/25 09:40
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:17*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/06/25 15:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 14:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 14:02	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 14:02	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:02*	*1*
o-Terphenyl	*87*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.4		10.1		mg/Kg			05/07/25 03:55	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 119

Lab Sample ID: 890-8093-6
Matrix: Solid
Date Collected: 05/02/25 11:29
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:38*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:38*	*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			05/06/25 15:38	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/08/25 14:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 14:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 14:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:17*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		9.92		mg/Kg			05/07/25 00:49	1

Client Sample ID: CS 143

Lab Sample ID: 890-8093-7
Matrix: Solid
Date Collected: 05/02/25 11:31
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/25 08:45	05/06/25 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:58*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 143

Lab Sample ID: 890-8093-7
Matrix: Solid
Date Collected: 05/02/25 11:31
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/06/25 15:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/25 14:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:32*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		9.90	mg/Kg			05/07/25 00:54	1

Client Sample ID: CS 144

Lab Sample ID: 890-8093-8
Matrix: Solid
Date Collected: 05/02/25 11:37
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/06/25 08:45	05/06/25 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/06/25 08:45*	*05/06/25 17:33*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/06/25 17:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			05/08/25 14:47	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 144

Lab Sample ID: 890-8093-8
Matrix: Solid
Date Collected: 05/02/25 11:37
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 14:47	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 14:47	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:47*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**476**	**F1**	10.1		mg/Kg			05/07/25 01:00	1

Client Sample ID: CS 149

Lab Sample ID: 890-8093-9
Matrix: Solid
Date Collected: 05/02/25 11:39
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/06/25 08:45*	*05/06/25 17:53*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/06/25 08:45*	*05/06/25 17:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/06/25 17:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 15:02	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 15:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 15:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 15:02*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/06/25 08:34*	*05/08/25 15:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 149

Lab Sample ID: 890-8093-9
Matrix: Solid
Date Collected: 05/02/25 11:39
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		10.1		mg/Kg			05/07/25 01:15	1

Client Sample ID: CS 116

Lab Sample ID: 890-8093-10
Matrix: Solid
Date Collected: 05/02/25 11:34
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/06/25 08:45	05/06/25 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:14*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/06/25 18:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/08/25 15:16	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 15:16	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 15:16	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/06/25 08:34*	*05/08/25 15:16*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/06/25 08:34*	*05/08/25 15:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		10.0		mg/Kg			05/07/25 01:20	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 117

Lab Sample ID: 890-8093-11
Matrix: Solid
Date Collected: 05/02/25 11:42
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00551**		0.00202		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:34*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00551**		0.00404		mg/Kg			05/06/25 18:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 21:12	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 21:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 21:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*05/06/25 08:38*	*05/08/25 21:12*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*05/06/25 08:38*	*05/08/25 21:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**		9.96		mg/Kg			05/07/25 01:36	1

Client Sample ID: CS 127

Lab Sample ID: 890-8093-12
Matrix: Solid
Date Collected: 05/02/25 11:44
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00200**		0.00199		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:55*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 127

Lab Sample ID: 890-8093-12
Matrix: Solid
Date Collected: 05/02/25 11:44
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:55*	*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			05/06/25 18:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			05/08/25 21:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		05/06/25 08:38	05/08/25 21:56	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		05/06/25 08:38	05/08/25 21:56	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		05/06/25 08:38	05/08/25 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*05/06/25 08:38*	*05/08/25 21:56*	*1*
o-Terphenyl	*78*		*70 - 130*	*05/06/25 08:38*	*05/08/25 21:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**229**		10.0	mg/Kg			05/07/25 01:41	1

Client Sample ID: CS 141

Lab Sample ID: 890-8093-13
Matrix: Solid
Date Collected: 05/02/25 12:36
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
Ethylbenzene	**0.00487**		0.00200	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
m-Xylene & p-Xylene	**0.00477**		0.00400	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
o-Xylene	**0.00454**		0.00200	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
Xylenes, Total	**0.00931**		0.00400	mg/Kg		05/06/25 08:45	05/06/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:15*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0142**		0.00400	mg/Kg			05/06/25 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/08/25 22:11	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 141

Date Collected: 05/02/25 12:36
Date Received: 05/05/25 15:24
Sample Depth: 1

Lab Sample ID: 890-8093-13
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/06/25 08:38	05/08/25 22:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/06/25 08:38	05/08/25 22:11	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/06/25 08:38	05/08/25 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:11*	*1*
o-Terphenyl	*73*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**288**		10.1		mg/Kg			05/07/25 01:46	1

Client Sample ID: CS 112

Date Collected: 05/02/25 12:39
Date Received: 05/05/25 15:24
Sample Depth: 1

Lab Sample ID: 890-8093-14
Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00212**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
Toluene	**0.00323**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
o-Xylene	**0.00321**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/06/25 08:45	05/06/25 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:36*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00856**		0.00397		mg/Kg			05/06/25 19:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 22:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:25*	*1*
o-Terphenyl	*72*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 112

Lab Sample ID: 890-8093-14
Matrix: Solid
Date Collected: 05/02/25 12:39
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		10.1		mg/Kg			05/07/25 01:52	1

Client Sample ID: CS 113

Lab Sample ID: 890-8093-15
Matrix: Solid
Date Collected: 05/02/25 13:56
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
Toluene	0.00233		0.00202		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:56*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/06/25 19:56	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 22:41	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:41*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*05/06/25 08:38*	*05/08/25 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	332		10.0		mg/Kg			05/07/25 01:57	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 114

Lab Sample ID: 890-8093-16
Matrix: Solid
Date Collected: 05/02/25 13:54
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
Toluene	**0.00539**		0.00199		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 20:17*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/06/25 08:45*	*05/06/25 20:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00539**		0.00398		mg/Kg			05/06/25 20:17	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 22:55	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 22:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 22:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:55*	*1*
o-Terphenyl	*121*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**304**		10.1		mg/Kg			05/07/25 02:02	1

Client Sample ID: CS 115

Lab Sample ID: 890-8093-17
Matrix: Solid
Date Collected: 05/02/25 13:50
Date Received: 05/05/25 15:24
Sample Depth: 1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
Toluene	**0.00483**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
Ethylbenzene	**0.00580**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*05/06/25 08:45*	*05/06/25 20:37*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 115

Date Collected: 05/02/25 13:50
Date Received: 05/05/25 15:24
Sample Depth: 1

Lab Sample ID: 890-8093-17

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*05/06/25 08:45*	*05/06/25 20:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0106**		0.00396		mg/Kg			05/06/25 20:37	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			05/08/25 23:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		05/06/25 08:38	05/08/25 23:11	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		05/06/25 08:38	05/08/25 23:11	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		05/06/25 08:38	05/08/25 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*05/06/25 08:38*	*05/08/25 23:11*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*05/06/25 08:38*	*05/08/25 23:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		10.1		mg/Kg			05/07/25 02:07	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-8093-1	CS 123	101	99										
890-8093-1 MS	CS 123	98	100										
890-8093-1 MSD	CS 123	104	101										
890-8093-2	CS 124	104	100										
890-8093-3	CS 125	103	103										
890-8093-4	CS 126	97	96										
890-8093-5	CS 118	106	103										
890-8093-6	CS 119	106	100										
890-8093-7	CS 143	106	101										
890-8093-8	CS 144	95	98										
890-8093-9	CS 149	108	107										
890-8093-10	CS 116	103	104										
890-8093-11	CS 117	84	98										
890-8093-12	CS 127	98	100										
890-8093-13	CS 141	93	104										
890-8093-14	CS 112	97	119										
890-8093-15	CS 113	95	97										
890-8093-16	CS 114	98	105										
890-8093-17	CS 115	76	67 S1-										
LCS 880-109486/1-A	Lab Control Sample	100	99										
LCSD 880-109486/2-A	Lab Control Sample Dup	96	106										
MB 880-109486/5-A	Method Blank	98	91										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-57666-A-1-H MS	Matrix Spike	98	83										
880-57666-A-1-I MSD	Matrix Spike Duplicate	96	82										
890-8093-1	CS 123	101	90										
890-8093-2	CS 124	103	93										
890-8093-3	CS 125	99	90										
890-8093-4	CS 126	96	86										
890-8093-5	CS 118	97	87										
890-8093-6	CS 119	96	88										
890-8093-7	CS 143	99	90										
890-8093-8	CS 144	101	92										
890-8093-9	CS 149	99	92										
890-8093-10	CS 116	100	91										
890-8093-11	CS 117	130	135 S1+										
890-8093-11 MS	CS 117	69 S1-	67 S1-										
890-8093-11 MSD	CS 117	81	74										
890-8093-12	CS 127	79	78										
890-8093-13	CS 141	74	73										

Surrogate Summary

Client: Ensolum Job ID: 890-8093-1
Project/Site: Flatland FNR FRAC LINE SDG: 03D3836001

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-8093-14	CS 112	73	72										
890-8093-15	CS 113	124	132 S1+										
890-8093-16	CS 114	118	121										
890-8093-17	CS 115	139 S1+	136 S1+										
LCS 880-109483/2-A	Lab Control Sample	111	94										
LCS 880-109484/2-A	Lab Control Sample	143 S1+	136 S1+										
LCSD 880-109483/3-A	Lab Control Sample Dup	98	82										
LCSD 880-109484/3-A	Lab Control Sample Dup	120	119										
MB 880-109483/1-A	Method Blank	140 S1+	124										
MB 880-109484/1-A	Method Blank	104	103										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109486/5-A
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109486

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/25 08:45	05/06/25 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 12:32*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/06/25 08:45*	*05/06/25 12:32*	*1*

Lab Sample ID: LCS 880-109486/1-A
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109486

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1115		mg/Kg		112	70 - 130		
Toluene			0.100	0.09809		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.1061		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2084		mg/Kg		104	70 - 130		
o-Xylene			0.100	0.1031		mg/Kg		103	70 - 130		

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

Lab Sample ID: LCSD 880-109486/2-A
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109486

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1087		mg/Kg		109	70 - 130	3	35
Toluene			0.100	0.09434		mg/Kg		94	70 - 130	4	35
Ethylbenzene			0.100	0.1031		mg/Kg		103	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2034		mg/Kg		102	70 - 130	2	35
o-Xylene			0.100	0.1009		mg/Kg		101	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-8093-1 MS
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: CS 123
Prep Type: Total/NA
Prep Batch: 109486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.100	0.09196		mg/Kg		92	70 - 130		
Toluene	<0.00198	U	0.100	0.08075		mg/Kg		81	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

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

Lab Sample ID: 890-8093-1 MS
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: CS 123
Prep Type: Total/NA
Prep Batch: 109486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.100	0.08735		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1709		mg/Kg		85	70 - 130
o-Xylene	<0.00198	U	0.100	0.08471		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-8093-1 MSD
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: CS 123
Prep Type: Total/NA
Prep Batch: 109486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09128		mg/Kg		91	70 - 130	1	35
Toluene	<0.00198	U	0.100	0.08029		mg/Kg		80	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.100	0.08520		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1668		mg/Kg		83	70 - 130	2	35
o-Xylene	<0.00198	U	0.100	0.08264		mg/Kg		83	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

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

Lab Sample ID: MB 880-109483/1-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 02:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 02:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*
o-Terphenyl	*124*		*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*

Lab Sample ID: LCS 880-109483/2-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1034		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1027		mg/Kg		103	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

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

Lab Sample ID: LCS 880-109483/2-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109483

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-109483/3-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	922.8		mg/Kg		92	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	881.2		mg/Kg		88	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-57666-A-1-H MS
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	909.6		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	875.2		mg/Kg		88	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-57666-A-1-I MSD
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	898.4		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	888.5		mg/Kg		89	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

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

Lab Sample ID: MB 880-109484/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109711 — **Prep Batch: 109484**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 16:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 16:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*05/06/25 08:38*	*05/08/25 16:32*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/06/25 08:38*	*05/08/25 16:32*	*1*

Lab Sample ID: LCS 880-109484/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109711 — **Prep Batch: 109484**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	919.2		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	912.8		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*143*	*S1+*	*70 - 130*
o-Terphenyl	*136*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-109484/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109711 — **Prep Batch: 109484**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	786.8		mg/Kg		79	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	807.5		mg/Kg		81	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 890-8093-11 MS — **Client Sample ID: CS 117**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109711 — **Prep Batch: 109484**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	937.3		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	997	877.4		mg/Kg		88	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

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

Lab Sample ID: 890-8093-11 MS
Matrix: Solid
Analysis Batch: 109711

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 109484

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	67	S1-	70 - 130

Lab Sample ID: 890-8093-11 MSD
Matrix: Solid
Analysis Batch: 109711

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 109484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	1093		mg/Kg		110	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<50.1	U	997	1007		mg/Kg		101	70 - 130	14	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	74		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109537/1-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/07/25 00:23	1

Lab Sample ID: LCS 880-109537/2-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.1		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-109537/3-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.6		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-8092-A-6-D MS
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	313		248	573.0		mg/Kg		105	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8092-A-6-E MSD
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	313		248	574.0		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-109552/1-A
Matrix: Solid
Analysis Batch: 109561

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/06/25 23:32	1

Lab Sample ID: LCS 880-109552/2-A
Matrix: Solid
Analysis Batch: 109561

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.7		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-109552/3-A
Matrix: Solid
Analysis Batch: 109561

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.0		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-8093-8 MS
Matrix: Solid
Analysis Batch: 109561

Client Sample ID: CS 144
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	476	F1	252	755.8	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 890-8093-8 MSD
Matrix: Solid
Analysis Batch: 109561

Client Sample ID: CS 144
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	476	F1	252	758.5	F1	mg/Kg		112	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

GC VOA

Analysis Batch: 109482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	8021B	109486
890-8093-2	CS 124	Total/NA	Solid	8021B	109486
890-8093-3	CS 125	Total/NA	Solid	8021B	109486
890-8093-4	CS 126	Total/NA	Solid	8021B	109486
890-8093-5	CS 118	Total/NA	Solid	8021B	109486
890-8093-6	CS 119	Total/NA	Solid	8021B	109486
890-8093-7	CS 143	Total/NA	Solid	8021B	109486
890-8093-8	CS 144	Total/NA	Solid	8021B	109486
890-8093-9	CS 149	Total/NA	Solid	8021B	109486
890-8093-10	CS 116	Total/NA	Solid	8021B	109486
890-8093-11	CS 117	Total/NA	Solid	8021B	109486
890-8093-12	CS 127	Total/NA	Solid	8021B	109486
890-8093-13	CS 141	Total/NA	Solid	8021B	109486
890-8093-14	CS 112	Total/NA	Solid	8021B	109486
890-8093-15	CS 113	Total/NA	Solid	8021B	109486
890-8093-16	CS 114	Total/NA	Solid	8021B	109486
890-8093-17	CS 115	Total/NA	Solid	8021B	109486
MB 880-109486/5-A	Method Blank	Total/NA	Solid	8021B	109486
LCS 880-109486/1-A	Lab Control Sample	Total/NA	Solid	8021B	109486
LCSD 880-109486/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109486
890-8093-1 MS	CS 123	Total/NA	Solid	8021B	109486
890-8093-1 MSD	CS 123	Total/NA	Solid	8021B	109486

Prep Batch: 109486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	5035	
890-8093-2	CS 124	Total/NA	Solid	5035	
890-8093-3	CS 125	Total/NA	Solid	5035	
890-8093-4	CS 126	Total/NA	Solid	5035	
890-8093-5	CS 118	Total/NA	Solid	5035	
890-8093-6	CS 119	Total/NA	Solid	5035	
890-8093-7	CS 143	Total/NA	Solid	5035	
890-8093-8	CS 144	Total/NA	Solid	5035	
890-8093-9	CS 149	Total/NA	Solid	5035	
890-8093-10	CS 116	Total/NA	Solid	5035	
890-8093-11	CS 117	Total/NA	Solid	5035	
890-8093-12	CS 127	Total/NA	Solid	5035	
890-8093-13	CS 141	Total/NA	Solid	5035	
890-8093-14	CS 112	Total/NA	Solid	5035	
890-8093-15	CS 113	Total/NA	Solid	5035	
890-8093-16	CS 114	Total/NA	Solid	5035	
890-8093-17	CS 115	Total/NA	Solid	5035	
MB 880-109486/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109486/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109486/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8093-1 MS	CS 123	Total/NA	Solid	5035	
890-8093-1 MSD	CS 123	Total/NA	Solid	5035	

Analysis Batch: 109982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

GC VOA (Continued)

Analysis Batch: 109982 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-2	CS 124	Total/NA	Solid	Total BTEX	
890-8093-3	CS 125	Total/NA	Solid	Total BTEX	
890-8093-4	CS 126	Total/NA	Solid	Total BTEX	
890-8093-5	CS 118	Total/NA	Solid	Total BTEX	
890-8093-6	CS 119	Total/NA	Solid	Total BTEX	
890-8093-7	CS 143	Total/NA	Solid	Total BTEX	
890-8093-8	CS 144	Total/NA	Solid	Total BTEX	
890-8093-9	CS 149	Total/NA	Solid	Total BTEX	
890-8093-10	CS 116	Total/NA	Solid	Total BTEX	
890-8093-11	CS 117	Total/NA	Solid	Total BTEX	
890-8093-12	CS 127	Total/NA	Solid	Total BTEX	
890-8093-13	CS 141	Total/NA	Solid	Total BTEX	
890-8093-14	CS 112	Total/NA	Solid	Total BTEX	
890-8093-15	CS 113	Total/NA	Solid	Total BTEX	
890-8093-16	CS 114	Total/NA	Solid	Total BTEX	
890-8093-17	CS 115	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	8015NM Prep	
890-8093-2	CS 124	Total/NA	Solid	8015NM Prep	
890-8093-3	CS 125	Total/NA	Solid	8015NM Prep	
890-8093-4	CS 126	Total/NA	Solid	8015NM Prep	
890-8093-5	CS 118	Total/NA	Solid	8015NM Prep	
890-8093-6	CS 119	Total/NA	Solid	8015NM Prep	
890-8093-7	CS 143	Total/NA	Solid	8015NM Prep	
890-8093-8	CS 144	Total/NA	Solid	8015NM Prep	
890-8093-9	CS 149	Total/NA	Solid	8015NM Prep	
890-8093-10	CS 116	Total/NA	Solid	8015NM Prep	
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57666-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57666-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 109484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-11	CS 117	Total/NA	Solid	8015NM Prep	
890-8093-12	CS 127	Total/NA	Solid	8015NM Prep	
890-8093-13	CS 141	Total/NA	Solid	8015NM Prep	
890-8093-14	CS 112	Total/NA	Solid	8015NM Prep	
890-8093-15	CS 113	Total/NA	Solid	8015NM Prep	
890-8093-16	CS 114	Total/NA	Solid	8015NM Prep	
890-8093-17	CS 115	Total/NA	Solid	8015NM Prep	
MB 880-109484/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109484/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109484/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8093-11 MS	CS 117	Total/NA	Solid	8015NM Prep	
890-8093-11 MSD	CS 117	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

GC Semi VOA

Analysis Batch: 109711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-11	CS 117	Total/NA	Solid	8015B NM	109484
890-8093-12	CS 127	Total/NA	Solid	8015B NM	109484
890-8093-13	CS 141	Total/NA	Solid	8015B NM	109484
890-8093-14	CS 112	Total/NA	Solid	8015B NM	109484
890-8093-15	CS 113	Total/NA	Solid	8015B NM	109484
890-8093-16	CS 114	Total/NA	Solid	8015B NM	109484
890-8093-17	CS 115	Total/NA	Solid	8015B NM	109484
MB 880-109484/1-A	Method Blank	Total/NA	Solid	8015B NM	109484
LCS 880-109484/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109484
LCSD 880-109484/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109484
890-8093-11 MS	CS 117	Total/NA	Solid	8015B NM	109484
890-8093-11 MSD	CS 117	Total/NA	Solid	8015B NM	109484

Analysis Batch: 109714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	8015B NM	109483
890-8093-2	CS 124	Total/NA	Solid	8015B NM	109483
890-8093-3	CS 125	Total/NA	Solid	8015B NM	109483
890-8093-4	CS 126	Total/NA	Solid	8015B NM	109483
890-8093-5	CS 118	Total/NA	Solid	8015B NM	109483
890-8093-6	CS 119	Total/NA	Solid	8015B NM	109483
890-8093-7	CS 143	Total/NA	Solid	8015B NM	109483
890-8093-8	CS 144	Total/NA	Solid	8015B NM	109483
890-8093-9	CS 149	Total/NA	Solid	8015B NM	109483
890-8093-10	CS 116	Total/NA	Solid	8015B NM	109483
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015B NM	109483
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109483
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109483
880-57666-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	109483
880-57666-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109483

Analysis Batch: 109811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	8015 NM	
890-8093-2	CS 124	Total/NA	Solid	8015 NM	
890-8093-3	CS 125	Total/NA	Solid	8015 NM	
890-8093-4	CS 126	Total/NA	Solid	8015 NM	
890-8093-5	CS 118	Total/NA	Solid	8015 NM	
890-8093-6	CS 119	Total/NA	Solid	8015 NM	
890-8093-7	CS 143	Total/NA	Solid	8015 NM	
890-8093-8	CS 144	Total/NA	Solid	8015 NM	
890-8093-9	CS 149	Total/NA	Solid	8015 NM	
890-8093-10	CS 116	Total/NA	Solid	8015 NM	
890-8093-11	CS 117	Total/NA	Solid	8015 NM	
890-8093-12	CS 127	Total/NA	Solid	8015 NM	
890-8093-13	CS 141	Total/NA	Solid	8015 NM	
890-8093-14	CS 112	Total/NA	Solid	8015 NM	
890-8093-15	CS 113	Total/NA	Solid	8015 NM	
890-8093-16	CS 114	Total/NA	Solid	8015 NM	
890-8093-17	CS 115	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

HPLC/IC

Leach Batch: 109537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Soluble	Solid	DI Leach	
890-8093-2	CS 124	Soluble	Solid	DI Leach	
890-8093-3	CS 125	Soluble	Solid	DI Leach	
890-8093-4	CS 126	Soluble	Solid	DI Leach	
890-8093-5	CS 118	Soluble	Solid	DI Leach	
MB 880-109537/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109537/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109537/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8092-A-6-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8092-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 109552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-6	CS 119	Soluble	Solid	DI Leach	
890-8093-7	CS 143	Soluble	Solid	DI Leach	
890-8093-8	CS 144	Soluble	Solid	DI Leach	
890-8093-9	CS 149	Soluble	Solid	DI Leach	
890-8093-10	CS 116	Soluble	Solid	DI Leach	
890-8093-11	CS 117	Soluble	Solid	DI Leach	
890-8093-12	CS 127	Soluble	Solid	DI Leach	
890-8093-13	CS 141	Soluble	Solid	DI Leach	
890-8093-14	CS 112	Soluble	Solid	DI Leach	
890-8093-15	CS 113	Soluble	Solid	DI Leach	
890-8093-16	CS 114	Soluble	Solid	DI Leach	
890-8093-17	CS 115	Soluble	Solid	DI Leach	
MB 880-109552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8093-8 MS	CS 144	Soluble	Solid	DI Leach	
890-8093-8 MSD	CS 144	Soluble	Solid	DI Leach	

Analysis Batch: 109555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Soluble	Solid	300.0	109537
890-8093-2	CS 124	Soluble	Solid	300.0	109537
890-8093-3	CS 125	Soluble	Solid	300.0	109537
890-8093-4	CS 126	Soluble	Solid	300.0	109537
890-8093-5	CS 118	Soluble	Solid	300.0	109537
MB 880-109537/1-A	Method Blank	Soluble	Solid	300.0	109537
LCS 880-109537/2-A	Lab Control Sample	Soluble	Solid	300.0	109537
LCSD 880-109537/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109537
890-8092-A-6-D MS	Matrix Spike	Soluble	Solid	300.0	109537
890-8092-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	109537

Analysis Batch: 109561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-6	CS 119	Soluble	Solid	300.0	109552
890-8093-7	CS 143	Soluble	Solid	300.0	109552
890-8093-8	CS 144	Soluble	Solid	300.0	109552
890-8093-9	CS 149	Soluble	Solid	300.0	109552
890-8093-10	CS 116	Soluble	Solid	300.0	109552

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

HPLC/IC (Continued)

Analysis Batch: 109561 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-11	CS 117	Soluble	Solid	300.0	109552
890-8093-12	CS 127	Soluble	Solid	300.0	109552
890-8093-13	CS 141	Soluble	Solid	300.0	109552
890-8093-14	CS 112	Soluble	Solid	300.0	109552
890-8093-15	CS 113	Soluble	Solid	300.0	109552
890-8093-16	CS 114	Soluble	Solid	300.0	109552
890-8093-17	CS 115	Soluble	Solid	300.0	109552
MB 880-109552/1-A	Method Blank	Soluble	Solid	300.0	109552
LCS 880-109552/2-A	Lab Control Sample	Soluble	Solid	300.0	109552
LCSD 880-109552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109552
890-8093-8 MS	CS 144	Soluble	Solid	300.0	109552
890-8093-8 MSD	CS 144	Soluble	Solid	300.0	109552

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 123

Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 12:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 12:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 13:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 13:01	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:27	CH	EET MID

Client Sample ID: CS 124

Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 13:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 13:15	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:34	CH	EET MID

Client Sample ID: CS 125

Date Collected: 05/02/25 09:30
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 13:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 13:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 13:30	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:41	CH	EET MID

Client Sample ID: CS 126

Date Collected: 05/02/25 09:34
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 14:57	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 126

Date Collected: 05/02/25 09:34
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109811	05/08/25 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 13:47	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:48	CH	EET MID

Client Sample ID: CS 118

Date Collected: 05/02/25 09:40
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 14:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 14:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:55	CH	EET MID

Client Sample ID: CS 119

Date Collected: 05/02/25 11:29
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 15:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 15:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 14:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 14:17	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 00:49	CH	EET MID

Client Sample ID: CS 143

Date Collected: 05/02/25 11:31
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 15:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 14:32	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 143
Date Collected: 05/02/25 11:31
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 00:54	CH	EET MID

Client Sample ID: CS 144
Date Collected: 05/02/25 11:37
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 17:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 14:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 14:47	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:00	CH	EET MID

Client Sample ID: CS 149
Date Collected: 05/02/25 11:39
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 17:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 15:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 15:02	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:15	CH	EET MID

Client Sample ID: CS 116
Date Collected: 05/02/25 11:34
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 15:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 15:16	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:20	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 117

Date Collected: 05/02/25 11:42
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 21:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 21:12	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:36	CH	EET MID

Client Sample ID: CS 127

Date Collected: 05/02/25 11:44
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 18:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 21:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 21:56	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:41	CH	EET MID

Client Sample ID: CS 141

Date Collected: 05/02/25 12:36
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 19:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 22:11	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:46	CH	EET MID

Client Sample ID: CS 112

Date Collected: 05/02/25 12:39
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 19:36	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 112

Date Collected: 05/02/25 12:39
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109811	05/08/25 22:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 22:25	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:52	CH	EET MID

Client Sample ID: CS 113

Date Collected: 05/02/25 13:56
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 19:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 22:41	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:57	CH	EET MID

Client Sample ID: CS 114

Date Collected: 05/02/25 13:54
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 20:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 20:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 22:55	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 02:02	CH	EET MID

Client Sample ID: CS 115

Date Collected: 05/02/25 13:50
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 20:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 20:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 23:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 23:11	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 115

Date Collected: 05/02/25 13:50
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 02:07	CH	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8093-1	CS 123	Solid	05/02/25 09:25	05/05/25 15:24	2
890-8093-2	CS 124	Solid	05/02/25 09:25	05/05/25 15:24	2
890-8093-3	CS 125	Solid	05/02/25 09:30	05/05/25 15:24	1
890-8093-4	CS 126	Solid	05/02/25 09:34	05/05/25 15:24	1
890-8093-5	CS 118	Solid	05/02/25 09:40	05/05/25 15:24	1
890-8093-6	CS 119	Solid	05/02/25 11:29	05/05/25 15:24	1
890-8093-7	CS 143	Solid	05/02/25 11:31	05/05/25 15:24	1
890-8093-8	CS 144	Solid	05/02/25 11:37	05/05/25 15:24	1
890-8093-9	CS 149	Solid	05/02/25 11:39	05/05/25 15:24	1
890-8093-10	CS 116	Solid	05/02/25 11:34	05/05/25 15:24	1
890-8093-11	CS 117	Solid	05/02/25 11:42	05/05/25 15:24	1
890-8093-12	CS 127	Solid	05/02/25 11:44	05/05/25 15:24	1
890-8093-13	CS 141	Solid	05/02/25 12:36	05/05/25 15:24	1
890-8093-14	CS 112	Solid	05/02/25 12:39	05/05/25 15:24	1
890-8093-15	CS 113	Solid	05/02/25 13:56	05/05/25 15:24	1
890-8093-16	CS 114	Solid	05/02/25 13:54	05/05/25 15:24	1
890-8093-17	CS 115	Solid	05/02/25 13:50	05/05/25 15:24	1

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Chain of Custody

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

890-8093 Chain of Custody

5/12/2025

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Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com

Work Order Comments

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

Project Name:	Flatland FNR Frac Line	**Turn Around**	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Uriel Santillana	~~TAT starts the day received by the lab, if received by 4:30pm~~	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.4
Total Containers:		Corrected Temperature:	5.2

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
CS123	S	5/12/25	925	2'	C	1		X	X	X			
CS124			930										
CS125			934										
CS126			940	2'									
CS118			1129	1'									
CS119			1131										
CS143			1137										
CS144			1139										
CS149			1134										
CS116			1142	1'									

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1:57 5/	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8093-1
SDG Number: 03D3836001

Login Number: 8093
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8093-1
SDG Number: 03D3836001

Login Number: 8093
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/06/25 08:23 AM

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

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/12/2025 9:19:14 AM

JOB DESCRIPTION

Flatland FNR Frac line
03D383600

JOB NUMBER

890-8112-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

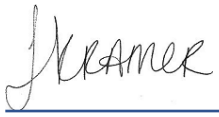
Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
5/12/2025 9:19:14 AM

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

Client: Ensolum
Project/Site: Flatland FNR Frac line

Laboratory Job ID: 890-8112-1
SDG: 03D383600

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Definitions/Glossary

Client: Ensolum Job ID: 890-8112-1
Project/Site: Flatland FNR Frac line SDG: 03D383600

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum Job ID: 890-8112-1
Project: Flatland FNR Frac line

Job ID: 890-8112-1 Eurofins Carlsbad

Job Narrative
890-8112-1

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

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

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

Receipt
The samples were received on 5/6/2025 11:00 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 4.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 85 (890-8112-1), CS 88 (890-8112-2), CS 89 (890-8112-3), CS 95 (890-8112-4), CS 96 (890-8112-5), CS 99 (890-8112-6), CS 100 (890-8112-7), CS 101 (890-8112-8), CS 102 (890-8112-9), CS 103 (890-8112-10), CS 105 (890-8112-11), CS 106 (890-8112-12), CS 107 (890-8112-13), CS 108 (890-8112-14), CS 109 (890-8112-15), CS 110 (890-8112-16), CS 121 (890-8112-17) and CS 122 (890-8112-18).

GC VOA
Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-109606 and analytical batch 880-109657 recovered outside control limits for the following analytes: Ethylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109589 and analytical batch 880-109892 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-109589/2-A) and (LCSD 880-109589/3-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
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-109649 and analytical batch 880-109658 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 85

Lab Sample ID: 890-8112-1
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/07/25 09:10*	*05/07/25 17:49*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/07/25 09:10*	*05/07/25 17:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/07/25 17:49	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/09/25 20:36	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 20:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 20:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/07/25 08:05*	*05/09/25 20:36*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/07/25 08:05*	*05/09/25 20:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**287**		9.92		mg/Kg			05/07/25 17:21	1

Client Sample ID: CS 88

Lab Sample ID: 890-8112-2
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00
Sample Depth: 2

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/25 09:10	05/07/25 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 88

Lab Sample ID: 890-8112-2
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00
Sample Depth: 2

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/07/25 18:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/09/25 20:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/07/25 08:05	05/09/25 20:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/07/25 08:05	05/09/25 20:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/07/25 08:05	05/09/25 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*05/07/25 08:05*	*05/09/25 20:50*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:05*	*05/09/25 20:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**191**	**F1**	9.96	mg/Kg			05/07/25 20:13	1

Client Sample ID: CS 89

Lab Sample ID: 890-8112-3
Matrix: Solid
Date Collected: 05/05/25 10:26
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/07/25 09:10	05/07/25 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:30*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:30*	*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			05/07/25 18:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/09/25 21:06	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 89

Lab Sample ID: 890-8112-3
Matrix: Solid
Date Collected: 05/05/25 10:26
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:06*	*1*
o-Terphenyl	*79*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**181**		10.0		mg/Kg			05/07/25 20:35	1

Client Sample ID: CS 95

Lab Sample ID: 890-8112-4
Matrix: Solid
Date Collected: 05/05/25 10:39
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/07/25 18:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/09/25 21:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 08:05	05/09/25 21:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 08:05	05/09/25 21:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 08:05	05/09/25 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:20*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:20*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 95

Lab Sample ID: 890-8112-4
Matrix: Solid
Date Collected: 05/05/25 10:39
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		10.0		mg/Kg			05/07/25 20:43	1

Client Sample ID: CS 96

Lab Sample ID: 890-8112-5
Matrix: Solid
Date Collected: 05/05/25 10:38
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:11*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/07/25 19:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/09/25 21:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:35*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		10.1		mg/Kg			05/07/25 20:50	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 99

Lab Sample ID: 890-8112-6
Matrix: Solid
Date Collected: 05/05/25 10:28
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:32*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/07/25 19:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/09/25 21:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 21:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 21:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:50*	*1*
o-Terphenyl	*78*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		9.94		mg/Kg			05/07/25 20:57	1

Client Sample ID: CS 100

Lab Sample ID: 890-8112-7
Matrix: Solid
Date Collected: 05/05/25 10:30
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/25 09:10	05/07/25 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:52*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 100

Lab Sample ID: 890-8112-7
Matrix: Solid
Date Collected: 05/05/25 10:30
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/07/25 19:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/09/25 23:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/09/25 23:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/09/25 23:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/09/25 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*91*		*70 - 130*	*05/07/25 08:08*	*05/09/25 23:47*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 08:08*	*05/09/25 23:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		9.92		mg/Kg			05/07/25 21:20	1

Client Sample ID: CS 101

Lab Sample ID: 890-8112-8
Matrix: Solid
Date Collected: 05/05/25 10:31
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 09:10	05/07/25 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 20:13*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 20:13*	*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			05/07/25 20:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 00:31	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 101

Lab Sample ID: 890-8112-8
Matrix: Solid
Date Collected: 05/05/25 10:31
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 00:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 00:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/07/25 08:08*	*05/10/25 00:31*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 08:08*	*05/10/25 00:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**402**		10.0		mg/Kg			05/07/25 21:27	1

Client Sample ID: CS 102

Lab Sample ID: 890-8112-9
Matrix: Solid
Date Collected: 05/05/25 10:34
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/07/25 09:10*	*05/07/25 21:37*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/07/25 09:10*	*05/07/25 21:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/07/25 21:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 00:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 00:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 00:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 08:08*	*05/10/25 00:46*	*1*
o-Terphenyl	*78*		*70 - 130*	*05/07/25 08:08*	*05/10/25 00:46*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 102

Lab Sample ID: 890-8112-9
Matrix: Solid
Date Collected: 05/05/25 10:34
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	467		9.94		mg/Kg			05/07/25 21:34	1

Client Sample ID: CS 103

Lab Sample ID: 890-8112-10
Matrix: Solid
Date Collected: 05/05/25 10:32
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/07/25 09:10*	*05/07/25 21:58*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/07/25 09:10*	*05/07/25 21:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/07/25 21:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/10/25 01:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 01:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 01:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:01*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		9.92		mg/Kg			05/07/25 21:42	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 105

Lab Sample ID: 890-8112-11
Matrix: Solid
Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/25 09:10	05/07/25 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/07/25 09:10*	*05/07/25 22:18*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/07/25 09:10*	*05/07/25 22:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/07/25 22:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/10/25 01:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 01:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 01:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:16*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.8**		10.0		mg/Kg			05/07/25 21:49	1

Client Sample ID: CS 106

Lab Sample ID: 890-8112-12
Matrix: Solid
Date Collected: 05/05/25 10:46
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 22:39*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 106

Lab Sample ID: 890-8112-12
Matrix: Solid
Date Collected: 05/05/25 10:46
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/07/25 09:10*	*05/07/25 22:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/07/25 22:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/10/25 01:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/07/25 08:08	05/10/25 01:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/07/25 08:08	05/10/25 01:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/07/25 08:08	05/10/25 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:30*	*1*
o-Terphenyl	*77*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**182**		10.0	mg/Kg			05/07/25 21:56	1

Client Sample ID: CS 107

Lab Sample ID: 890-8112-13
Matrix: Solid
Date Collected: 05/05/25 10:48
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/07/25 09:10	05/07/25 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:00*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/07/25 23:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/10/25 01:46	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 107

Lab Sample ID: 890-8112-13
Matrix: Solid
Date Collected: 05/05/25 10:48
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 01:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 01:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:46*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**223**		10.1		mg/Kg			05/07/25 22:18	1

Client Sample ID: CS 108

Lab Sample ID: 890-8112-14
Matrix: Solid
Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:20*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/07/25 23:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 02:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 02:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 02:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:00*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:00*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 108

Lab Sample ID: 890-8112-14
Matrix: Solid
Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	265		9.94		mg/Kg			05/07/25 22:26	1

Client Sample ID: CS 109

Lab Sample ID: 890-8112-15
Matrix: Solid
Date Collected: 05/05/25 10:40
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/25 09:10	05/07/25 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:41*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/07/25 23:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/10/25 02:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 02:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 02:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:16*	*1*
o-Terphenyl	*77*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	539		9.98		mg/Kg			05/07/25 22:48	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 110

Lab Sample ID: 890-8112-16
Matrix: Solid
Date Collected: 05/05/25 10:45
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/08/25 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:01*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/08/25 00:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 02:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 02:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 02:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:30*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		9.92		mg/Kg			05/07/25 22:55	1

Client Sample ID: CS 121

Lab Sample ID: 890-8112-17
Matrix: Solid
Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/07/25 09:10	05/08/25 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:22*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 121

Lab Sample ID: 890-8112-17
Matrix: Solid
Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/25 00:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/10/25 02:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/07/25 08:08	05/10/25 02:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/07/25 08:08	05/10/25 02:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/07/25 08:08	05/10/25 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:59*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**145**		10.0	mg/Kg			05/07/25 23:03	1

Client Sample ID: CS 122

Lab Sample ID: 890-8112-18
Matrix: Solid
Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/07/25 09:10	05/08/25 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:42*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/25 00:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/10/25 03:15	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 122

Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00
Sample Depth: 2

Lab Sample ID: 890-8112-18

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 03:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 03:15	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:15*	*1*
o-Terphenyl	*79*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		9.94		mg/Kg			05/07/25 23:10	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-57822-A-1-B MS	Matrix Spike	108	93										
880-57822-A-1-C MSD	Matrix Spike Duplicate	120	95										
890-8112-1	CS 85	101	86										
890-8112-2	CS 88	98	83										
890-8112-3	CS 89	96	98										
890-8112-4	CS 95	98	99										
890-8112-5	CS 96	91	97										
890-8112-6	CS 99	96	95										
890-8112-7	CS 100	95	98										
890-8112-8	CS 101	95	95										
890-8112-9	CS 102	96	86										
890-8112-10	CS 103	94	94										
890-8112-11	CS 105	93	93										
890-8112-12	CS 106	98	84										
890-8112-13	CS 107	93	98										
890-8112-14	CS 108	91	95										
890-8112-15	CS 109	97	95										
890-8112-16	CS 110	94	90										
890-8112-17	CS 121	97	99										
890-8112-18	CS 122	114	86										
LCS 880-109606/1-A	Lab Control Sample	116	96										
LCSD 880-109606/2-A	Lab Control Sample Dup	111	107										
MB 880-109606/5-A	Method Blank	88	93										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-8098-A-1-B MS	Matrix Spike	91	78										
890-8098-A-1-C MSD	Matrix Spike Duplicate	91	79										
890-8112-1	CS 85	96	88										
890-8112-2	CS 88	87	80										
890-8112-3	CS 89	87	79										
890-8112-4	CS 95	88	82										
890-8112-5	CS 96	86	80										
890-8112-6	CS 99	86	78										
890-8112-7	CS 100	91	82										
890-8112-7 MS	CS 100	97	80										
890-8112-7 MSD	CS 100	94	80										
890-8112-8	CS 101	91	82										
890-8112-9	CS 102	88	78										
890-8112-10	CS 103	90	80										
890-8112-11	CS 105	90	80										
890-8112-12	CS 106	85	77										

Surrogate Summary

Client: Ensolum Job ID: 890-8112-1
Project/Site: Flatland FNR Frac line SDG: 03D383600

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-8112-13	CS 107	88	80										
890-8112-14	CS 108	90	80										
890-8112-15	CS 109	85	77										
890-8112-16	CS 110	92	82										
890-8112-17	CS 121	89	80										
890-8112-18	CS 122	88	79										
LCS 880-109589/2-A	Lab Control Sample	153 S1+	128										
LCS 880-109590/2-A	Lab Control Sample	107	90										
LCSD 880-109589/3-A	Lab Control Sample Dup	160 S1+	133 S1+										
LCSD 880-109590/3-A	Lab Control Sample Dup	109	92										
MB 880-109589/1-A	Method Blank	140 S1+	124										
MB 880-109590/1-A	Method Blank	122	108										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109606/5-A
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109606

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 16:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/07/25 09:10*	*05/07/25 16:47*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/07/25 09:10*	*05/07/25 16:47*	*1*

Lab Sample ID: LCS 880-109606/1-A
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1132		mg/Kg		113	70 - 130		
Toluene			0.100	0.1010		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.1368	*+	mg/Kg		137	70 - 130		
m-Xylene & p-Xylene			0.200	0.2597		mg/Kg		130	70 - 130		
o-Xylene			0.100	0.1225		mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-109606/2-A
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109606

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1037		mg/Kg		104	70 - 130	9	35
Toluene			0.100	0.08956		mg/Kg		90	70 - 130	12	35
Ethylbenzene			0.100	0.09820		mg/Kg		98	70 - 130	33	35
m-Xylene & p-Xylene			0.200	0.2298		mg/Kg		115	70 - 130	12	35
o-Xylene			0.100	0.1096		mg/Kg		110	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-57822-A-1-B MS
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08502		mg/Kg		85	70 - 130		
Toluene	<0.00200	U	0.100	0.07429		mg/Kg		74	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-57822-A-1-B MS
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U *+	0.100	0.09924		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1840		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.100	0.08757		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-57822-A-1-C MSD
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09340		mg/Kg		93	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.08364		mg/Kg		84	70 - 130	12	35
Ethylbenzene	<0.00200	U *+	0.100	0.09233		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2139		mg/Kg		107	70 - 130	15	35
o-Xylene	<0.00200	U	0.100	0.1037		mg/Kg		104	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109589/1-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109589

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*05/07/25 07:57*	*05/09/25 11:15*	*1*
o-Terphenyl	*124*		*70 - 130*	*05/07/25 07:57*	*05/09/25 11:15*	*1*

Lab Sample ID: LCS 880-109589/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109589

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	936.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)			1000	916.6		mg/Kg		92	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109589/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109589

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: LCSD 880-109589/3-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109589

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	984.8		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	981.6		mg/Kg		98	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	160	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: 890-8098-A-1-B MS
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1057		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1009		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 890-8098-A-1-C MSD
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1058		mg/Kg		106	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1029		mg/Kg		100	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	79		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-109590/1-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109590

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 23:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 23:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/07/25 07:57*	*05/09/25 23:03*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/07/25 07:57*	*05/09/25 23:03*	*1*

Lab Sample ID: LCS 880-109590/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109590

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	951.2		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	997.6		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-109590/3-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109590

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	924.4		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	984.3		mg/Kg		98	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 890-8112-7 MS
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: CS 100
Prep Type: Total/NA
Prep Batch: 109590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	1063		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	994	1019		mg/Kg		101	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8112-7 MS
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: CS 100
Prep Type: Total/NA
Prep Batch: 109590

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: 890-8112-7 MSD
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: CS 100
Prep Type: Total/NA
Prep Batch: 109590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	1079		mg/Kg		109	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	994	1060		mg/Kg		105	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109608/1-A
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/07/25 14:45	1

Lab Sample ID: LCS 880-109608/2-A
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-109608/3-A
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.3		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-8098-A-6-D MS
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	119		250	376.3		mg/Kg		103	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8098-A-6-E MSD
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	119		250	376.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-109649/1-A
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/07/25 19:51	1

Lab Sample ID: LCS 880-109649/2-A
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.2		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-109649/3-A
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	262.7		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-8112-2 MS
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: CS 88
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	191	F1	249	471.0	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 890-8112-2 MSD
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: CS 88
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	191	F1	249	465.8		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 890-8112-12 MS
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: CS 106
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	182		251	431.2		mg/Kg		99	90 - 110		

Lab Sample ID: 890-8112-12 MSD
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: CS 106
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	182		251	431.2		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

GC VOA

Prep Batch: 109606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	5035	
890-8112-2	CS 88	Total/NA	Solid	5035	
890-8112-3	CS 89	Total/NA	Solid	5035	
890-8112-4	CS 95	Total/NA	Solid	5035	
890-8112-5	CS 96	Total/NA	Solid	5035	
890-8112-6	CS 99	Total/NA	Solid	5035	
890-8112-7	CS 100	Total/NA	Solid	5035	
890-8112-8	CS 101	Total/NA	Solid	5035	
890-8112-9	CS 102	Total/NA	Solid	5035	
890-8112-10	CS 103	Total/NA	Solid	5035	
890-8112-11	CS 105	Total/NA	Solid	5035	
890-8112-12	CS 106	Total/NA	Solid	5035	
890-8112-13	CS 107	Total/NA	Solid	5035	
890-8112-14	CS 108	Total/NA	Solid	5035	
890-8112-15	CS 109	Total/NA	Solid	5035	
890-8112-16	CS 110	Total/NA	Solid	5035	
890-8112-17	CS 121	Total/NA	Solid	5035	
890-8112-18	CS 122	Total/NA	Solid	5035	
MB 880-109606/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109606/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109606/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57822-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-57822-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	8021B	109606
890-8112-2	CS 88	Total/NA	Solid	8021B	109606
890-8112-3	CS 89	Total/NA	Solid	8021B	109606
890-8112-4	CS 95	Total/NA	Solid	8021B	109606
890-8112-5	CS 96	Total/NA	Solid	8021B	109606
890-8112-6	CS 99	Total/NA	Solid	8021B	109606
890-8112-7	CS 100	Total/NA	Solid	8021B	109606
890-8112-8	CS 101	Total/NA	Solid	8021B	109606
890-8112-9	CS 102	Total/NA	Solid	8021B	109606
890-8112-10	CS 103	Total/NA	Solid	8021B	109606
890-8112-11	CS 105	Total/NA	Solid	8021B	109606
890-8112-12	CS 106	Total/NA	Solid	8021B	109606
890-8112-13	CS 107	Total/NA	Solid	8021B	109606
890-8112-14	CS 108	Total/NA	Solid	8021B	109606
890-8112-15	CS 109	Total/NA	Solid	8021B	109606
890-8112-16	CS 110	Total/NA	Solid	8021B	109606
890-8112-17	CS 121	Total/NA	Solid	8021B	109606
890-8112-18	CS 122	Total/NA	Solid	8021B	109606
MB 880-109606/5-A	Method Blank	Total/NA	Solid	8021B	109606
LCS 880-109606/1-A	Lab Control Sample	Total/NA	Solid	8021B	109606
LCSD 880-109606/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109606
880-57822-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	109606
880-57822-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109606

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

GC VOA

Analysis Batch: 109751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	Total BTEX	
890-8112-2	CS 88	Total/NA	Solid	Total BTEX	
890-8112-3	CS 89	Total/NA	Solid	Total BTEX	
890-8112-4	CS 95	Total/NA	Solid	Total BTEX	
890-8112-5	CS 96	Total/NA	Solid	Total BTEX	
890-8112-6	CS 99	Total/NA	Solid	Total BTEX	
890-8112-7	CS 100	Total/NA	Solid	Total BTEX	
890-8112-8	CS 101	Total/NA	Solid	Total BTEX	
890-8112-9	CS 102	Total/NA	Solid	Total BTEX	
890-8112-10	CS 103	Total/NA	Solid	Total BTEX	
890-8112-11	CS 105	Total/NA	Solid	Total BTEX	
890-8112-12	CS 106	Total/NA	Solid	Total BTEX	
890-8112-13	CS 107	Total/NA	Solid	Total BTEX	
890-8112-14	CS 108	Total/NA	Solid	Total BTEX	
890-8112-15	CS 109	Total/NA	Solid	Total BTEX	
890-8112-16	CS 110	Total/NA	Solid	Total BTEX	
890-8112-17	CS 121	Total/NA	Solid	Total BTEX	
890-8112-18	CS 122	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	8015NM Prep	
890-8112-2	CS 88	Total/NA	Solid	8015NM Prep	
890-8112-3	CS 89	Total/NA	Solid	8015NM Prep	
890-8112-4	CS 95	Total/NA	Solid	8015NM Prep	
890-8112-5	CS 96	Total/NA	Solid	8015NM Prep	
890-8112-6	CS 99	Total/NA	Solid	8015NM Prep	
MB 880-109589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8098-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8098-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 109590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-7	CS 100	Total/NA	Solid	8015NM Prep	
890-8112-8	CS 101	Total/NA	Solid	8015NM Prep	
890-8112-9	CS 102	Total/NA	Solid	8015NM Prep	
890-8112-10	CS 103	Total/NA	Solid	8015NM Prep	
890-8112-11	CS 105	Total/NA	Solid	8015NM Prep	
890-8112-12	CS 106	Total/NA	Solid	8015NM Prep	
890-8112-13	CS 107	Total/NA	Solid	8015NM Prep	
890-8112-14	CS 108	Total/NA	Solid	8015NM Prep	
890-8112-15	CS 109	Total/NA	Solid	8015NM Prep	
890-8112-16	CS 110	Total/NA	Solid	8015NM Prep	
890-8112-17	CS 121	Total/NA	Solid	8015NM Prep	
890-8112-18	CS 122	Total/NA	Solid	8015NM Prep	
MB 880-109590/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109590/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

GC Semi VOA (Continued)

Prep Batch: 109590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-109590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8112-7 MS	CS 100	Total/NA	Solid	8015NM Prep	
890-8112-7 MSD	CS 100	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	8015B NM	109589
890-8112-2	CS 88	Total/NA	Solid	8015B NM	109589
890-8112-3	CS 89	Total/NA	Solid	8015B NM	109589
890-8112-4	CS 95	Total/NA	Solid	8015B NM	109589
890-8112-5	CS 96	Total/NA	Solid	8015B NM	109589
890-8112-6	CS 99	Total/NA	Solid	8015B NM	109589
890-8112-7	CS 100	Total/NA	Solid	8015B NM	109590
890-8112-8	CS 101	Total/NA	Solid	8015B NM	109590
890-8112-9	CS 102	Total/NA	Solid	8015B NM	109590
890-8112-10	CS 103	Total/NA	Solid	8015B NM	109590
890-8112-11	CS 105	Total/NA	Solid	8015B NM	109590
890-8112-12	CS 106	Total/NA	Solid	8015B NM	109590
890-8112-13	CS 107	Total/NA	Solid	8015B NM	109590
890-8112-14	CS 108	Total/NA	Solid	8015B NM	109590
890-8112-15	CS 109	Total/NA	Solid	8015B NM	109590
890-8112-16	CS 110	Total/NA	Solid	8015B NM	109590
890-8112-17	CS 121	Total/NA	Solid	8015B NM	109590
890-8112-18	CS 122	Total/NA	Solid	8015B NM	109590
MB 880-109589/1-A	Method Blank	Total/NA	Solid	8015B NM	109589
MB 880-109590/1-A	Method Blank	Total/NA	Solid	8015B NM	109590
LCS 880-109589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109589
LCS 880-109590/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109590
LCSD 880-109589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109589
LCSD 880-109590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109590
890-8098-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109589
890-8098-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109589
890-8112-7 MS	CS 100	Total/NA	Solid	8015B NM	109590
890-8112-7 MSD	CS 100	Total/NA	Solid	8015B NM	109590

Analysis Batch: 109941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	8015 NM	
890-8112-2	CS 88	Total/NA	Solid	8015 NM	
890-8112-3	CS 89	Total/NA	Solid	8015 NM	
890-8112-4	CS 95	Total/NA	Solid	8015 NM	
890-8112-5	CS 96	Total/NA	Solid	8015 NM	
890-8112-6	CS 99	Total/NA	Solid	8015 NM	
890-8112-7	CS 100	Total/NA	Solid	8015 NM	
890-8112-8	CS 101	Total/NA	Solid	8015 NM	
890-8112-9	CS 102	Total/NA	Solid	8015 NM	
890-8112-10	CS 103	Total/NA	Solid	8015 NM	
890-8112-11	CS 105	Total/NA	Solid	8015 NM	
890-8112-12	CS 106	Total/NA	Solid	8015 NM	
890-8112-13	CS 107	Total/NA	Solid	8015 NM	
890-8112-14	CS 108	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

GC Semi VOA (Continued)

Analysis Batch: 109941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-15	CS 109	Total/NA	Solid	8015 NM	
890-8112-16	CS 110	Total/NA	Solid	8015 NM	
890-8112-17	CS 121	Total/NA	Solid	8015 NM	
890-8112-18	CS 122	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Soluble	Solid	DI Leach	
MB 880-109608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8098-A-6-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8098-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 109635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Soluble	Solid	300.0	109608
MB 880-109608/1-A	Method Blank	Soluble	Solid	300.0	109608
LCS 880-109608/2-A	Lab Control Sample	Soluble	Solid	300.0	109608
LCSD 880-109608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109608
890-8098-A-6-D MS	Matrix Spike	Soluble	Solid	300.0	109608
890-8098-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	109608

Leach Batch: 109649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-2	CS 88	Soluble	Solid	DI Leach	
890-8112-3	CS 89	Soluble	Solid	DI Leach	
890-8112-4	CS 95	Soluble	Solid	DI Leach	
890-8112-5	CS 96	Soluble	Solid	DI Leach	
890-8112-6	CS 99	Soluble	Solid	DI Leach	
890-8112-7	CS 100	Soluble	Solid	DI Leach	
890-8112-8	CS 101	Soluble	Solid	DI Leach	
890-8112-9	CS 102	Soluble	Solid	DI Leach	
890-8112-10	CS 103	Soluble	Solid	DI Leach	
890-8112-11	CS 105	Soluble	Solid	DI Leach	
890-8112-12	CS 106	Soluble	Solid	DI Leach	
890-8112-13	CS 107	Soluble	Solid	DI Leach	
890-8112-14	CS 108	Soluble	Solid	DI Leach	
890-8112-15	CS 109	Soluble	Solid	DI Leach	
890-8112-16	CS 110	Soluble	Solid	DI Leach	
890-8112-17	CS 121	Soluble	Solid	DI Leach	
890-8112-18	CS 122	Soluble	Solid	DI Leach	
MB 880-109649/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109649/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109649/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8112-2 MS	CS 88	Soluble	Solid	DI Leach	
890-8112-2 MSD	CS 88	Soluble	Solid	DI Leach	
890-8112-12 MS	CS 106	Soluble	Solid	DI Leach	
890-8112-12 MSD	CS 106	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

HPLC/IC

Analysis Batch: 109658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-2	CS 88	Soluble	Solid	300.0	109649
890-8112-3	CS 89	Soluble	Solid	300.0	109649
890-8112-4	CS 95	Soluble	Solid	300.0	109649
890-8112-5	CS 96	Soluble	Solid	300.0	109649
890-8112-6	CS 99	Soluble	Solid	300.0	109649
890-8112-7	CS 100	Soluble	Solid	300.0	109649
890-8112-8	CS 101	Soluble	Solid	300.0	109649
890-8112-9	CS 102	Soluble	Solid	300.0	109649
890-8112-10	CS 103	Soluble	Solid	300.0	109649
890-8112-11	CS 105	Soluble	Solid	300.0	109649
890-8112-12	CS 106	Soluble	Solid	300.0	109649
890-8112-13	CS 107	Soluble	Solid	300.0	109649
890-8112-14	CS 108	Soluble	Solid	300.0	109649
890-8112-15	CS 109	Soluble	Solid	300.0	109649
890-8112-16	CS 110	Soluble	Solid	300.0	109649
890-8112-17	CS 121	Soluble	Solid	300.0	109649
890-8112-18	CS 122	Soluble	Solid	300.0	109649
MB 880-109649/1-A	Method Blank	Soluble	Solid	300.0	109649
LCS 880-109649/2-A	Lab Control Sample	Soluble	Solid	300.0	109649
LCSD 880-109649/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109649
890-8112-2 MS	CS 88	Soluble	Solid	300.0	109649
890-8112-2 MSD	CS 88	Soluble	Solid	300.0	109649
890-8112-12 MS	CS 106	Soluble	Solid	300.0	109649
890-8112-12 MSD	CS 106	Soluble	Solid	300.0	109649

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 85

Lab Sample ID: 890-8112-1
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 17:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 20:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 20:36	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109608	05/07/25 09:16	SA	EET MID
Soluble	Analysis	300.0		1			109635	05/07/25 17:21	CH	EET MID

Client Sample ID: CS 88

Lab Sample ID: 890-8112-2
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 18:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 20:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 20:50	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:13	CH	EET MID

Client Sample ID: CS 89

Lab Sample ID: 890-8112-3
Matrix: Solid
Date Collected: 05/05/25 10:26
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 21:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 21:06	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:35	CH	EET MID

Client Sample ID: CS 95

Lab Sample ID: 890-8112-4
Matrix: Solid
Date Collected: 05/05/25 10:39
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 18:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 18:51	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 95
Date Collected: 05/05/25 10:39
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109941	05/09/25 21:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 21:20	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:43	CH	EET MID

Client Sample ID: CS 96
Date Collected: 05/05/25 10:38
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 21:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 21:35	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:50	CH	EET MID

Client Sample ID: CS 99
Date Collected: 05/05/25 10:28
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 19:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 19:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 21:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 21:50	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:57	CH	EET MID

Client Sample ID: CS 100
Date Collected: 05/05/25 10:30
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 19:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 23:47	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 100
Date Collected: 05/05/25 10:30
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:20	CH	EET MID

Client Sample ID: CS 101
Date Collected: 05/05/25 10:31
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 20:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 20:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 00:31	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:27	CH	EET MID

Client Sample ID: CS 102
Date Collected: 05/05/25 10:34
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 21:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 21:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 00:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 00:46	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:34	CH	EET MID

Client Sample ID: CS 103
Date Collected: 05/05/25 10:32
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 21:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 21:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 01:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 01:01	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:42	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 105

Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 22:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 22:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 01:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 01:16	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:49	CH	EET MID

Client Sample ID: CS 106

Date Collected: 05/05/25 10:46
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 22:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 22:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 01:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 01:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:56	CH	EET MID

Client Sample ID: CS 107

Date Collected: 05/05/25 10:48
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 23:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 01:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 01:46	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 22:18	CH	EET MID

Client Sample ID: CS 108

Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 23:20	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 108

Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109941	05/10/25 02:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 02:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 22:26	CH	EET MID

Client Sample ID: CS 109

Date Collected: 05/05/25 10:40
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 23:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 23:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 02:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 02:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 22:48	CH	EET MID

Client Sample ID: CS 110

Date Collected: 05/05/25 10:45
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/08/25 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/08/25 00:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 02:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 02:30	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 22:55	CH	EET MID

Client Sample ID: CS 121

Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/08/25 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/08/25 00:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 02:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 02:59	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 121

Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 23:03	CH	EET MID

Client Sample ID: CS 122

Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/08/25 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/08/25 00:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 03:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 03:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 23:10	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8112-1	CS 85	Solid	05/05/25 10:23	05/06/25 11:00	2
890-8112-2	CS 88	Solid	05/05/25 10:23	05/06/25 11:00	2
890-8112-3	CS 89	Solid	05/05/25 10:26	05/06/25 11:00	2
890-8112-4	CS 95	Solid	05/05/25 10:39	05/06/25 11:00	1
890-8112-5	CS 96	Solid	05/05/25 10:38	05/06/25 11:00	1
890-8112-6	CS 99	Solid	05/05/25 10:28	05/06/25 11:00	2
890-8112-7	CS 100	Solid	05/05/25 10:30	05/06/25 11:00	2
890-8112-8	CS 101	Solid	05/05/25 10:31	05/06/25 11:00	1
890-8112-9	CS 102	Solid	05/05/25 10:34	05/06/25 11:00	1
890-8112-10	CS 103	Solid	05/05/25 10:32	05/06/25 11:00	1
890-8112-11	CS 105	Solid	05/05/25 10:42	05/06/25 11:00	1
890-8112-12	CS 106	Solid	05/05/25 10:46	05/06/25 11:00	1
890-8112-13	CS 107	Solid	05/05/25 10:48	05/06/25 11:00	1
890-8112-14	CS 108	Solid	05/05/25 10:42	05/06/25 11:00	1
890-8112-15	CS 109	Solid	05/05/25 10:40	05/06/25 11:00	1
890-8112-16	CS 110	Solid	05/05/25 10:45	05/06/25 11:00	1
890-8112-17	CS 121	Solid	05/05/25 10:25	05/06/25 11:00	2
890-8112-18	CS 122	Solid	05/05/25 10:25	05/06/25 11:00	2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-8112 Chain of Custody

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Project Manager:	Hadlie Green	Bill to: (if different)	ATTN : Hadlie Green
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com, jgonzalez@ensolum.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D383600	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Higinio Gonzalez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	NM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6
Total Containers:		Corrected Temperature:	4.4

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides (EPA 3000.0)	TPH 8015	BTEX 8021	Sample Comments
CS 85	S	5/5/2025	1023	2'	C	1	X	X	X	
CS 88	S	5/5/2025	1023	2'	C	1	X	X	X	
CS 89	S	5/5/2025	1026	2'	C	1	X	X	X	
CS 95	S	5/5/2025	1039	1'	C	1	X	X	X	
CS 96	S	5/5/2025	1038	1'	C	1	X	X	X	
CS 99	S	5/5/2025	1028	2'	C	1	X	X	X	
CS 100	S	5/5/2025	1030	2'	C	1	X	X	X	
CS 101	S	5/5/2025	1031	1'	C	1	X	X	X	
CS 102	S	5/5/2025	1034	1'	C	1	X	X	X	
CS 103	S	5/5/2025	1032	1'	C	1	X	X	X	

Total 200.7 / 6010 **200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11:00 5/6	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

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5/12/2025

Chain of Custody

eurofins | Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	ATTN : Hadlie Green
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com, jgonzalez@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D383600	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Higinio Gonzalez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TNM007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.6	
Total Containers:		Corrected Temperature:	4.4	

Preservative Codes

None: NO | DI Water: H_2O
~~Cool: Cool~~ | ~~MeOH: Me~~
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides (EPA 3000.0)	TPH 8015	BTEX 8021	Sample Comments
CS105	S	5/5/2025	1042	1'	C	1	X	X	X	
CS106	S	5/5/2025	1046	1'	C	1	X	X	X	
CS107	S	5/5/2025	1048	1'	C	1	X	X	X	
CS108	S	5/5/2025	1042	1'	C	1	X	X	X	
CS109	S	5/5/2025	1040	1'	C	1	X	X	X	
CS110	S	5/5/2025	1045	1'	C	1	X	X	X	
CS121	S	5/5/2025	1026	2'	C	1	X	X	X	
CS122	S	5/5/2025	1025	2'	C	1	X	X	X	
	S	5/5/2025			C	1	X	X	X	
	S	5/5/2025			C	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11:00 5/6	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5057.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8112-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/12/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Flatland FNR Frac line	Project #: 89000145			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 85 (890-8112-1)	5/5/25	10:23 Mountain	G	Solid			X	X	X	X	X	1	
CS 88 (890-8112-2)	5/5/25	10:23 Mountain	G	Solid			X	X	X	X	X	1	
CS 89 (890-8112-3)	5/5/25	10:26 Mountain	G	Solid			X	X	X	X	X	1	
CS 95 (890-8112-4)	5/5/25	10:39 Mountain	G	Solid			X	X	X	X	X	1	
CS 96 (890-8112-5)	5/5/25	10:38 Mountain	G	Solid			X	X	X	X	X	1	
CS 99 (890-8112-6)	5/5/25	10:28 Mountain	G	Solid			X	X	X	X	X	1	
CS 100 (890-8112-7)	5/5/25	10:30 Mountain	G	Solid			X	X	X	X	X	1	
CS 101 (890-8112-8)	5/5/25	10:31 Mountain	G	Solid			X	X	X	X	X	1	
CS 102 (890-8112-9)	5/5/25	10:34 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	5/6 1630				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5057.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8112-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/12/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Flatland FNR Frac line	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 103 (890-8112-10)	5/5/25	10:32 Mountain	G	Solid			X	X	X	X	X	1	
CS 105 (890-8112-11)	5/5/25	10:42 Mountain	G	Solid			X	X	X	X	X	1	
CS 106 (890-8112-12)	5/5/25	10:46 Mountain	G	Solid			X	X	X	X	X	1	
CS 107 (890-8112-13)	5/5/25	10:48 Mountain	G	Solid			X	X	X	X	X	1	
CS 108 (890-8112-14)	5/5/25	10:42 Mountain	G	Solid			X	X	X	X	X	1	
CS 109 (890-8112-15)	5/5/25	10:40 Mountain	G	Solid			X	X	X	X	X	1	
CS 110 (890-8112-16)	5/5/25	10:45 Mountain	G	Solid			X	X	X	X	X	1	
CS 121 (890-8112-17)	5/5/25	10:25 Mountain	G	Solid			X	X	X	X	X	1	
CS 122 (890-8112-18)	5/5/25	10:25 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Bruny	5/6 1630		EA		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8112-1
SDG Number: 03D383600

Login Number: 8112
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8112-1
SDG Number: 03D383600

Login Number: 8112
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/07/25 07:47 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/12/2025 10:19:13 AM

JOB DESCRIPTION

Flatland FNR FAC Line
Eddy County

JOB NUMBER

880-57839-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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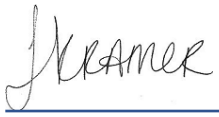
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/12/2025 10:19:13 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Laboratory Job ID: 880-57839-1
SDG: Eddy County

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Definitions/Glossary

Client: Ensolum Job ID: 880-57839-1
Project/Site: Flatland FNR FAC Line SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-57839-1
Project: Flatland FNR FAC Line

Job ID: 880-57839-1 Eurofins Midland

Job Narrative
880-57839-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/7/2025 1:51 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 4.7°C.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: CS199 (880-57839-12) and (CCV 880-109696/20). 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.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109662 and analytical batch 880-109714 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-109662 and analytical batch 880-109714 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS01

Date Collected: 05/06/25 10:48
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 15:35	05/08/25 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*05/07/25 15:35*	*05/08/25 11:50*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/07/25 15:35*	*05/08/25 11:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/08/25 11:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 03:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 03:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 03:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:44*	*1*
o-Terphenyl	*84*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**264**		10.1		mg/Kg			05/08/25 10:26	1

Client Sample ID: CS02

Date Collected: 05/06/25 10:50
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 15:35	05/08/25 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:10*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS02

Date Collected: 05/06/25 10:50
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/08/25 12:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 03:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 03:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 03:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:59*	*1*
o-Terphenyl	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**327**		10.0		mg/Kg			05/08/25 10:48	1

Client Sample ID: CS03

Date Collected: 05/06/25 10:52
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:31*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/08/25 12:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 04:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:14	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS03

Lab Sample ID: 880-57839-3
Matrix: Solid
Date Collected: 05/06/25 10:52
Date Received: 05/07/25 13:51

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:14*	*1*
o-Terphenyl	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.0**		10.1		mg/Kg			05/08/25 10:55	1

Client Sample ID: CS04

Lab Sample ID: 880-57839-4
Matrix: Solid
Date Collected: 05/06/25 10:54
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:51*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:51*	*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			05/08/25 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 04:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 04:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 04:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:29*	*1*
o-Terphenyl	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**253**		9.96		mg/Kg			05/08/25 11:03	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS05

Date Collected: 05/06/25 10:56
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:12*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:12*	*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			05/08/25 13:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/10/25 04:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 04:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 04:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:43*	*1*
o-Terphenyl	*83*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**208**		9.94		mg/Kg			05/08/25 11:10	1

Client Sample ID: CS06

Date Collected: 05/06/25 10:58
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/25 15:35	05/08/25 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:32*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:32*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS06

Lab Sample ID: 880-57839-6
Date Collected: 05/06/25 10:58
Matrix: Solid
Date Received: 05/07/25 13:51

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/08/25 13:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:59*	*1*
o-Terphenyl	*84*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		10.0		mg/Kg			05/08/25 11:32	1

Client Sample ID: CS07

Lab Sample ID: 880-57839-7
Date Collected: 05/06/25 11:00
Matrix: Solid
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:52*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/08/25 13:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 05:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 05:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 05:12	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS07

Lab Sample ID: 880-57839-7
Matrix: Solid
Date Collected: 05/06/25 11:00
Date Received: 05/07/25 13:51

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*05/07/25 08:08*	*05/10/25 05:12*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/07/25 08:08*	*05/10/25 05:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**		9.98		mg/Kg			05/08/25 11:40	1

Client Sample ID: CS08

Lab Sample ID: 880-57839-8
Matrix: Solid
Date Collected: 05/06/25 11:02
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/25 15:35	05/08/25 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:13*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/08/25 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 21:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/07/25 14:33	05/08/25 21:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/07/25 14:33	05/08/25 21:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/07/25 14:33	05/08/25 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/07/25 14:33*	*05/08/25 21:12*	*1*
o-Terphenyl	*83*		*70 - 130*	*05/07/25 14:33*	*05/08/25 21:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.3**		9.96		mg/Kg			05/08/25 11:47	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS09

Lab Sample ID: 880-57839-9
Date Collected: 05/06/25 11:04
Matrix: Solid
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:33*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:33*	*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			05/08/25 14:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/08/25 21:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/07/25 14:33	05/08/25 21:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/07/25 14:33	05/08/25 21:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/07/25 14:33	05/08/25 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/07/25 14:33*	*05/08/25 21:56*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 14:33*	*05/08/25 21:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**188**		10.0		mg/Kg			05/08/25 11:54	1

Client Sample ID: CS190

Lab Sample ID: 880-57839-10
Date Collected: 05/06/25 12:52
Matrix: Solid
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:54*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:54*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS190

Lab Sample ID: 880-57839-10
Date Collected: 05/06/25 12:52
Matrix: Solid
Date Received: 05/07/25 13:51

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			05/08/25 14:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/08/25 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:11*	*1*
o-Terphenyl	*84*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		10.1		mg/Kg			05/08/25 12:02	1

Client Sample ID: CS194

Lab Sample ID: 880-57839-11
Date Collected: 05/06/25 12:54
Matrix: Solid
Date Received: 05/07/25 13:51

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		05/07/25 15:35	05/08/25 17:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 17:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 17:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 15:35	05/08/25 17:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 17:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 15:35	05/08/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:02*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/08/25 17:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 22:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:25	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS194

Lab Sample ID: 880-57839-11
Matrix: Solid
Date Collected: 05/06/25 12:54
Date Received: 05/07/25 13:51

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:25*	*1*
o-Terphenyl	*78*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		10.1		mg/Kg			05/08/25 12:09	1

Client Sample ID: CS199

Lab Sample ID: 880-57839-12
Matrix: Solid
Date Collected: 05/06/25 12:56
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:22*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/08/25 17:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 22:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:41*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		10.1		mg/Kg			05/08/25 12:31	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: SW07

Date Collected: 05/06/25 12:58
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-13

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/25 15:35	05/08/25 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:42*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/08/25 17:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/08/25 22:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:55*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**191**		10.0		mg/Kg			05/08/25 12:39	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57839-1	CS01	120	84
880-57839-1 MS	CS01	122	85
880-57839-1 MSD	CS01	117	89
880-57839-2	CS02	118	83
880-57839-3	CS03	116	85
880-57839-4	CS04	113	71
880-57839-5	CS05	111	84
880-57839-6	CS06	122	72
880-57839-7	CS07	115	87
880-57839-8	CS08	70	74
880-57839-9	CS09	114	84
880-57839-10	CS190	128	75
880-57839-11	CS194	127	89
880-57839-12	CS199	130	74
880-57839-13	SW07	113	85
LCS 880-109665/1-A	Lab Control Sample	110	87
LCSD 880-109665/2-A	Lab Control Sample Dup	115	86
MB 880-109665/5-A	Method Blank	117	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57839-1	CS01	92	84
880-57839-2	CS02	93	85
880-57839-3	CS03	93	85
880-57839-4	CS04	93	85
880-57839-5	CS05	90	83
880-57839-6	CS06	91	84
880-57839-7	CS07	95	88
880-57839-8	CS08	89	83
880-57839-8 MS	CS08	99	87
880-57839-8 MSD	CS08	97	84
880-57839-9	CS09	89	82
880-57839-10	CS190	91	84
880-57839-11	CS194	87	78
880-57839-12	CS199	88	80
880-57839-13	SW07	90	82
LCS 880-109590/2-A	Lab Control Sample	107	90
LCS 880-109662/2-A	Lab Control Sample	96	82
LCSD 880-109590/3-A	Lab Control Sample Dup	109	92
LCSD 880-109662/3-A	Lab Control Sample Dup	100	84
MB 880-109590/1-A	Method Blank	122	108
MB 880-109662/1-A	Method Blank	139 S1+	126

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109665/5-A
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109665

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 15:35	05/08/25 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/07/25 15:35*	*05/08/25 11:28*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/07/25 15:35*	*05/08/25 11:28*	*1*

Lab Sample ID: LCS 880-109665/1-A
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109665

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07001		mg/Kg		70	70 - 130		
Toluene			0.100	0.07894		mg/Kg		79	70 - 130		
Ethylbenzene			0.100	0.08151		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene			0.200	0.1683		mg/Kg		84	70 - 130		
o-Xylene			0.100	0.08077		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: LCSD 880-109665/2-A
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109665

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07664		mg/Kg		77	70 - 130	9	35
Toluene			0.100	0.07897		mg/Kg		79	70 - 130	0	35
Ethylbenzene			0.100	0.08169		mg/Kg		82	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1703		mg/Kg		85	70 - 130	1	35
o-Xylene			0.100	0.08185		mg/Kg		82	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-57839-1 MS
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: CS01
Prep Type: Total/NA
Prep Batch: 109665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08902		mg/Kg		89	70 - 130		
Toluene	<0.00200	U	0.100	0.1008		mg/Kg		101	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-57839-1 MS
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: CS01
Prep Type: Total/NA
Prep Batch: 109665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1066		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2140		mg/Kg		107	70 - 130
o-Xylene	<0.00200	U	0.100	0.1001		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 880-57839-1 MSD
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: CS01
Prep Type: Total/NA
Prep Batch: 109665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09384		mg/Kg		94	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.1044		mg/Kg		104	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.1077		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2233		mg/Kg		112	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.1051		mg/Kg		105	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109590/1-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109590

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/07/25 07:57	05/09/25 23:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/07/25 07:57	05/09/25 23:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/07/25 07:57	05/09/25 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/07/25 07:57*	*05/09/25 23:03*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/07/25 07:57*	*05/09/25 23:03*	*1*

Lab Sample ID: LCS 880-109590/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	951.2		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	997.6		mg/Kg		100	70 - 130

Eurofins Midland

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109590/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109590

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-109590/3-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109590

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	924.4		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	984.3		mg/Kg		98	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: MB 880-109662/1-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109662

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 14:33	05/08/25 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 14:33	05/08/25 20:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 14:33	05/08/25 20:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	05/07/25 14:33	05/08/25 20:25	1
o-Terphenyl	126		70 - 130	05/07/25 14:33	05/08/25 20:25	1

Lab Sample ID: LCS 880-109662/2-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109662

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	883.8		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	891.7		mg/Kg		89	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-109662/3-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109662

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	929.6		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	919.2		mg/Kg		92	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: 880-57839-8 MS
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: CS08
Prep Type: Total/NA
Prep Batch: 109662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	998	1197		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	998	1102		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: 880-57839-8 MSD
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: CS08
Prep Type: Total/NA
Prep Batch: 109662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	998	1154		mg/Kg		116	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.1	U	998	1103		mg/Kg		108	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109694/1-A
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/08/25 10:04	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-109694/2-A
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.0		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-109694/3-A
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.7		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 880-57839-1 MS
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: CS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	264		252	516.9		mg/Kg		100	90 - 110		

Lab Sample ID: 880-57839-1 MSD
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: CS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	264		252	520.3		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-57839-11 MS
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: CS194
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	100		252	339.1		mg/Kg		95	90 - 110		

Lab Sample ID: 880-57839-11 MSD
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: CS194
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		252	342.6		mg/Kg		96	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

GC VOA

Prep Batch: 109665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	5035	
880-57839-2	CS02	Total/NA	Solid	5035	
880-57839-3	CS03	Total/NA	Solid	5035	
880-57839-4	CS04	Total/NA	Solid	5035	
880-57839-5	CS05	Total/NA	Solid	5035	
880-57839-6	CS06	Total/NA	Solid	5035	
880-57839-7	CS07	Total/NA	Solid	5035	
880-57839-8	CS08	Total/NA	Solid	5035	
880-57839-9	CS09	Total/NA	Solid	5035	
880-57839-10	CS190	Total/NA	Solid	5035	
880-57839-11	CS194	Total/NA	Solid	5035	
880-57839-12	CS199	Total/NA	Solid	5035	
880-57839-13	SW07	Total/NA	Solid	5035	
MB 880-109665/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109665/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109665/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57839-1 MS	CS01	Total/NA	Solid	5035	
880-57839-1 MSD	CS01	Total/NA	Solid	5035	

Analysis Batch: 109696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	8021B	109665
880-57839-2	CS02	Total/NA	Solid	8021B	109665
880-57839-3	CS03	Total/NA	Solid	8021B	109665
880-57839-4	CS04	Total/NA	Solid	8021B	109665
880-57839-5	CS05	Total/NA	Solid	8021B	109665
880-57839-6	CS06	Total/NA	Solid	8021B	109665
880-57839-7	CS07	Total/NA	Solid	8021B	109665
880-57839-8	CS08	Total/NA	Solid	8021B	109665
880-57839-9	CS09	Total/NA	Solid	8021B	109665
880-57839-10	CS190	Total/NA	Solid	8021B	109665
880-57839-11	CS194	Total/NA	Solid	8021B	109665
880-57839-12	CS199	Total/NA	Solid	8021B	109665
880-57839-13	SW07	Total/NA	Solid	8021B	109665
MB 880-109665/5-A	Method Blank	Total/NA	Solid	8021B	109665
LCS 880-109665/1-A	Lab Control Sample	Total/NA	Solid	8021B	109665
LCSD 880-109665/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109665
880-57839-1 MS	CS01	Total/NA	Solid	8021B	109665
880-57839-1 MSD	CS01	Total/NA	Solid	8021B	109665

Analysis Batch: 109753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	Total BTEX	
880-57839-2	CS02	Total/NA	Solid	Total BTEX	
880-57839-3	CS03	Total/NA	Solid	Total BTEX	
880-57839-4	CS04	Total/NA	Solid	Total BTEX	
880-57839-5	CS05	Total/NA	Solid	Total BTEX	
880-57839-6	CS06	Total/NA	Solid	Total BTEX	
880-57839-7	CS07	Total/NA	Solid	Total BTEX	
880-57839-8	CS08	Total/NA	Solid	Total BTEX	
880-57839-9	CS09	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 109753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-10	CS190	Total/NA	Solid	Total BTEX	
880-57839-11	CS194	Total/NA	Solid	Total BTEX	
880-57839-12	CS199	Total/NA	Solid	Total BTEX	
880-57839-13	SW07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	8015NM Prep	
880-57839-2	CS02	Total/NA	Solid	8015NM Prep	
880-57839-3	CS03	Total/NA	Solid	8015NM Prep	
880-57839-4	CS04	Total/NA	Solid	8015NM Prep	
880-57839-5	CS05	Total/NA	Solid	8015NM Prep	
880-57839-6	CS06	Total/NA	Solid	8015NM Prep	
880-57839-7	CS07	Total/NA	Solid	8015NM Prep	
MB 880-109590/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109590/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 109662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-8	CS08	Total/NA	Solid	8015NM Prep	
880-57839-9	CS09	Total/NA	Solid	8015NM Prep	
880-57839-10	CS190	Total/NA	Solid	8015NM Prep	
880-57839-11	CS194	Total/NA	Solid	8015NM Prep	
880-57839-12	CS199	Total/NA	Solid	8015NM Prep	
880-57839-13	SW07	Total/NA	Solid	8015NM Prep	
MB 880-109662/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109662/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57839-8 MS	CS08	Total/NA	Solid	8015NM Prep	
880-57839-8 MSD	CS08	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-8	CS08	Total/NA	Solid	8015B NM	109662
880-57839-9	CS09	Total/NA	Solid	8015B NM	109662
880-57839-10	CS190	Total/NA	Solid	8015B NM	109662
880-57839-11	CS194	Total/NA	Solid	8015B NM	109662
880-57839-12	CS199	Total/NA	Solid	8015B NM	109662
880-57839-13	SW07	Total/NA	Solid	8015B NM	109662
MB 880-109662/1-A	Method Blank	Total/NA	Solid	8015B NM	109662
LCS 880-109662/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109662
LCSD 880-109662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109662
880-57839-8 MS	CS08	Total/NA	Solid	8015B NM	109662
880-57839-8 MSD	CS08	Total/NA	Solid	8015B NM	109662

Analysis Batch: 109812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 109812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-2	CS02	Total/NA	Solid	8015 NM	
880-57839-3	CS03	Total/NA	Solid	8015 NM	
880-57839-4	CS04	Total/NA	Solid	8015 NM	
880-57839-5	CS05	Total/NA	Solid	8015 NM	
880-57839-6	CS06	Total/NA	Solid	8015 NM	
880-57839-7	CS07	Total/NA	Solid	8015 NM	
880-57839-8	CS08	Total/NA	Solid	8015 NM	
880-57839-9	CS09	Total/NA	Solid	8015 NM	
880-57839-10	CS190	Total/NA	Solid	8015 NM	
880-57839-11	CS194	Total/NA	Solid	8015 NM	
880-57839-12	CS199	Total/NA	Solid	8015 NM	
880-57839-13	SW07	Total/NA	Solid	8015 NM	

Analysis Batch: 109892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	8015B NM	109590
880-57839-2	CS02	Total/NA	Solid	8015B NM	109590
880-57839-3	CS03	Total/NA	Solid	8015B NM	109590
880-57839-4	CS04	Total/NA	Solid	8015B NM	109590
880-57839-5	CS05	Total/NA	Solid	8015B NM	109590
880-57839-6	CS06	Total/NA	Solid	8015B NM	109590
880-57839-7	CS07	Total/NA	Solid	8015B NM	109590
MB 880-109590/1-A	Method Blank	Total/NA	Solid	8015B NM	109590
LCS 880-109590/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109590
LCSD 880-109590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109590

HPLC/IC

Leach Batch: 109694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Soluble	Solid	DI Leach	
880-57839-2	CS02	Soluble	Solid	DI Leach	
880-57839-3	CS03	Soluble	Solid	DI Leach	
880-57839-4	CS04	Soluble	Solid	DI Leach	
880-57839-5	CS05	Soluble	Solid	DI Leach	
880-57839-6	CS06	Soluble	Solid	DI Leach	
880-57839-7	CS07	Soluble	Solid	DI Leach	
880-57839-8	CS08	Soluble	Solid	DI Leach	
880-57839-9	CS09	Soluble	Solid	DI Leach	
880-57839-10	CS190	Soluble	Solid	DI Leach	
880-57839-11	CS194	Soluble	Solid	DI Leach	
880-57839-12	CS199	Soluble	Solid	DI Leach	
880-57839-13	SW07	Soluble	Solid	DI Leach	
MB 880-109694/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109694/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109694/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57839-1 MS	CS01	Soluble	Solid	DI Leach	
880-57839-1 MSD	CS01	Soluble	Solid	DI Leach	
880-57839-11 MS	CS194	Soluble	Solid	DI Leach	
880-57839-11 MSD	CS194	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

HPLC/IC

Analysis Batch: 109704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Soluble	Solid	300.0	109694
880-57839-2	CS02	Soluble	Solid	300.0	109694
880-57839-3	CS03	Soluble	Solid	300.0	109694
880-57839-4	CS04	Soluble	Solid	300.0	109694
880-57839-5	CS05	Soluble	Solid	300.0	109694
880-57839-6	CS06	Soluble	Solid	300.0	109694
880-57839-7	CS07	Soluble	Solid	300.0	109694
880-57839-8	CS08	Soluble	Solid	300.0	109694
880-57839-9	CS09	Soluble	Solid	300.0	109694
880-57839-10	CS190	Soluble	Solid	300.0	109694
880-57839-11	CS194	Soluble	Solid	300.0	109694
880-57839-12	CS199	Soluble	Solid	300.0	109694
880-57839-13	SW07	Soluble	Solid	300.0	109694
MB 880-109694/1-A	Method Blank	Soluble	Solid	300.0	109694
LCS 880-109694/2-A	Lab Control Sample	Soluble	Solid	300.0	109694
LCSD 880-109694/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109694
880-57839-1 MS	CS01	Soluble	Solid	300.0	109694
880-57839-1 MSD	CS01	Soluble	Solid	300.0	109694
880-57839-11 MS	CS194	Soluble	Solid	300.0	109694
880-57839-11 MSD	CS194	Soluble	Solid	300.0	109694

Lab Chronicle

Client: Ensolum
Job ID: 880-57839-1
Project/Site: Flatland FNR FAC Line
SDG: Eddy County

Client Sample ID: CS01
Lab Sample ID: 880-57839-1
Date Collected: 05/06/25 10:48
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 11:50
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 11:50
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 03:44
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 03:44
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 10:26

Client Sample ID: CS02
Lab Sample ID: 880-57839-2
Date Collected: 05/06/25 10:50
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 12:10
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 12:10
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 03:59
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 03:59
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 10:48

Client Sample ID: CS03
Lab Sample ID: 880-57839-3
Date Collected: 05/06/25 10:52
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 12:31
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 12:31
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 04:14
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 04:14
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 10:55

Client Sample ID: CS04
Lab Sample ID: 880-57839-4
Date Collected: 05/06/25 10:54
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 12:51
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 12:51

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS04

Lab Sample ID: 880-57839-4
Matrix: Solid
Date Collected: 05/06/25 10:54
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 04:29
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 04:29
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:03

Client Sample ID: CS05

Lab Sample ID: 880-57839-5
Matrix: Solid
Date Collected: 05/06/25 10:56
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 13:12
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 13:12
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 04:43
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 04:43
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:10

Client Sample ID: CS06

Lab Sample ID: 880-57839-6
Matrix: Solid
Date Collected: 05/06/25 10:58
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 13:32
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 13:32
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 04:59
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 04:59
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:32

Client Sample ID: CS07

Lab Sample ID: 880-57839-7
Matrix: Solid
Date Collected: 05/06/25 11:00
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 13:52
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 13:52
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 05:12
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 05:12

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS07

Lab Sample ID: 880-57839-7
Matrix: Solid
Date Collected: 05/06/25 11:00
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:40

Client Sample ID: CS08

Lab Sample ID: 880-57839-8
Matrix: Solid
Date Collected: 05/06/25 11:02
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 14:13
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 14:13
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 21:12
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 21:12
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:47

Client Sample ID: CS09

Lab Sample ID: 880-57839-9
Matrix: Solid
Date Collected: 05/06/25 11:04
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 14:33
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 14:33
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 21:56
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 21:56
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:54

Client Sample ID: CS190

Lab Sample ID: 880-57839-10
Matrix: Solid
Date Collected: 05/06/25 12:52
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 14:54
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 14:54
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 22:11
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 22:11
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 12:02

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS194

Lab Sample ID: 880-57839-11

Date Collected: 05/06/25 12:54
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 17:02
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 17:02
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 22:25
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 22:25
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 12:09

Client Sample ID: CS199

Lab Sample ID: 880-57839-12

Date Collected: 05/06/25 12:56
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 17:22
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 17:22
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 22:41
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 22:41
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 12:31

Client Sample ID: SW07

Lab Sample ID: 880-57839-13

Date Collected: 05/06/25 12:58
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 17:42
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 17:42
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 22:55
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 22:55
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 12:39

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57839-1	CS01	Solid	05/06/25 10:48	05/07/25 13:51
880-57839-2	CS02	Solid	05/06/25 10:50	05/07/25 13:51
880-57839-3	CS03	Solid	05/06/25 10:52	05/07/25 13:51
880-57839-4	CS04	Solid	05/06/25 10:54	05/07/25 13:51
880-57839-5	CS05	Solid	05/06/25 10:56	05/07/25 13:51
880-57839-6	CS06	Solid	05/06/25 10:58	05/07/25 13:51
880-57839-7	CS07	Solid	05/06/25 11:00	05/07/25 13:51
880-57839-8	CS08	Solid	05/06/25 11:02	05/07/25 13:51
880-57839-9	CS09	Solid	05/06/25 11:04	05/07/25 13:51
880-57839-10	CS190	Solid	05/06/25 12:52	05/07/25 13:51
880-57839-11	CS194	Solid	05/06/25 12:54	05/07/25 13:51
880-57839-12	CS199	Solid	05/06/25 12:56	05/07/25 13:51
880-57839-13	SW07	Solid	05/06/25 12:58	05/07/25 13:51

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-57839 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	Ensolum
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Fac Line	Turn Around	☐ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Tabitha Guadian		
PO #:	03D3836001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.8
Total Containers:		Corrected Temperature:	4.7

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	TPH 8015	Chloride 300.0	Sample Comments
CS01	S	5/6/25	1048	0.25'	C	1		X	X	X	
CS02			1050	0.25'				X	X	X	
CS03			1052	0.25'				X	X	X	
CS04			1054	0.25'				X	X	X	
CS05			1056	0.25'				X	X	X	
CS06			1058	2'				X	X	X	
CS07			1100	2'				X	X	X	
CS08			1102	2'				X	X	X	
CS09			1104	2'				X	X	X	
CS10			1252	1'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5/7/25 1351	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 57839

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Project Manager:	Hadlie Green	Bill to: (if different)	Ensolum
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	03D3836001		
PO #:	Tabitha Guadiana		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.8	
Total Containers:		Corrected Temperature:	4.7	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX 8021	TPH 8015	Chloride 300	Sample Comments
CS194	S	5/6/25	1254	0.5'	C	1	X	X	X	
CS199	S	5/6/25	1256	0.5'	C	1	X	X	X	
SW07	S	5/6/25	1258	0-1'	C	1	X	X	X	

Preservative Codes: None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

5/6/25

TAT

NFE

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5/7/25 1351	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-57839-1
SDG Number: Eddy County

Login Number: 57839
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:39:54 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8173-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

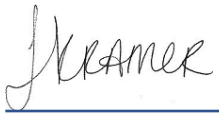
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:39:54 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8173-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8173-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1 Eurofins Carlsbad

Job Narrative
890-8173-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 5/16/2025 3:57 PM. 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 4.0°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SW 05 (890-8173-1).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-110415 and analytical batch 880-110687 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-110415 and analytical batch 880-110687 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110451 and analytical batch 880-110505 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.

The associated samples are: SW 05 (890-8173-1), (890-8173-A-1-E MS) and (890-8173-A-1-F MSD).

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: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Client Sample ID: SW 05

Date Collected: 05/16/25 10:12
Date Received: 05/16/25 15:57
Sample Depth: 0 - 3'

Lab Sample ID: 890-8173-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
o-Xylene	**0.00382**		0.00200		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/19/25 09:51	05/19/25 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*05/19/25 09:51*	*05/19/25 19:50*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/19/25 09:51*	*05/19/25 19:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/19/25 19:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 21:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 21:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 21:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:05*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**	**F1**	10.1		mg/Kg			05/20/25 10:21	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8170-A-1-D MS	Matrix Spike	94	92
890-8170-A-1-E MSD	Matrix Spike Duplicate	84	106
890-8173-1	SW 05	82	96
LCS 880-110420/1-A	Lab Control Sample	96	103
LCSD 880-110420/2-A	Lab Control Sample Dup	94	90
MB 880-110420/5-A	Method Blank	72	110

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8167-A-5-C MS	Matrix Spike	80	71
890-8167-A-5-D MSD	Matrix Spike Duplicate	96	94
890-8173-1	SW 05	105	93
LCS 880-110415/2-A	Lab Control Sample	97	100
LCSD 880-110415/3-A	Lab Control Sample Dup	113	115
MB 880-110415/1-A	Method Blank	130	120

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110420/5-A
Matrix: Solid
Analysis Batch: 110410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110420

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/25 09:51	05/19/25 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*05/19/25 09:51*	*05/19/25 11:35*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/19/25 09:51*	*05/19/25 11:35*	*1*

Lab Sample ID: LCS 880-110420/1-A
Matrix: Solid
Analysis Batch: 110410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110420

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09344		mg/Kg		93	70 - 130		
Toluene			0.100	0.09022		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09280		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1941		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09589		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-110420/2-A
Matrix: Solid
Analysis Batch: 110410

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110420

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08977		mg/Kg		90	70 - 130	4	35
Toluene			0.100	0.08934		mg/Kg		89	70 - 130	1	35
Ethylbenzene			0.100	0.09383		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1974		mg/Kg		99	70 - 130	2	35
o-Xylene			0.100	0.09702		mg/Kg		97	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-8170-A-1-D MS
Matrix: Solid
Analysis Batch: 110410

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110420

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.07944		mg/Kg		79	70 - 130		
Toluene	<0.00200	U	0.100	0.07850		mg/Kg		79	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8170-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110410 — **Prep Batch: 110420**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08144		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1714		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.100	0.08412		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-8170-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110410 — **Prep Batch: 110420**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08692		mg/Kg		87	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.08062		mg/Kg		81	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.08009		mg/Kg		80	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1654		mg/Kg		83	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.08059		mg/Kg		81	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110415/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110687 — **Prep Batch: 110415**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/19/25 08:53	05/21/25 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/19/25 08:53	05/21/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/25 08:53	05/21/25 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*05/19/25 08:53*	*05/21/25 15:49*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/19/25 08:53*	*05/21/25 15:49*	*1*

Lab Sample ID: LCS 880-110415/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110687 — **Prep Batch: 110415**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1099		mg/Kg		110	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110415/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110415

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-110415/3-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110415

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1129		mg/Kg		113	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1119		mg/Kg		112	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-8167-A-5-C MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	567.8	F1	mg/Kg		57	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	681.6	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 890-8167-A-5-D MSD
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110415

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	893.4	F2	mg/Kg		89	70 - 130	45	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	988.1	F2	mg/Kg		96	70 - 130	37	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110451/1-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 10:00	1

Lab Sample ID: LCS 880-110451/2-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-110451/3-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-8173-1 MS
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: SW 05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	107	F1	252	385.7	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 890-8173-1 MSD
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: SW 05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	107	F1	252	392.4	F1	mg/Kg		114	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

GC VOA

Analysis Batch: 110410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	8021B	110420
MB 880-110420/5-A	Method Blank	Total/NA	Solid	8021B	110420
LCS 880-110420/1-A	Lab Control Sample	Total/NA	Solid	8021B	110420
LCSD 880-110420/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110420
890-8170-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	110420
890-8170-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110420

Prep Batch: 110420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	5035	
MB 880-110420/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110420/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110420/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8170-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-8170-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 110513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	8015NM Prep	
MB 880-110415/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110415/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8167-A-5-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8167-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	8015B NM	110415
MB 880-110415/1-A	Method Blank	Total/NA	Solid	8015B NM	110415
LCS 880-110415/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110415
LCSD 880-110415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110415
890-8167-A-5-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110415
890-8167-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110415

Analysis Batch: 110723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Soluble	Solid	DI Leach	
MB 880-110451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

HPLC/IC (Continued)

Leach Batch: 110451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1 MS	SW 05	Soluble	Solid	DI Leach	
890-8173-1 MSD	SW 05	Soluble	Solid	DI Leach	

Analysis Batch: 110505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Soluble	Solid	300.0	110451
MB 880-110451/1-A	Method Blank	Soluble	Solid	300.0	110451
LCS 880-110451/2-A	Lab Control Sample	Soluble	Solid	300.0	110451
LCSD 880-110451/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110451
890-8173-1 MS	SW 05	Soluble	Solid	300.0	110451
890-8173-1 MSD	SW 05	Soluble	Solid	300.0	110451

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Client Sample ID: SW 05

Date Collected: 05/16/25 10:12
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8173-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110420	05/19/25 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110410	05/19/25 19:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110513	05/19/25 19:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			110723	05/21/25 21:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 21:05	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110451	05/19/25 14:02	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	110505	05/20/25 10:21	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8173-1	SW 05	Solid	05/16/25 10:12	05/16/25 15:57	0 - 3'

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5/22/2025

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
~~Project Location:~~	~~32.30486, -103.89709~~	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Thm-07
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

ANALYSIS REQUEST

890-8173 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cool	Cool	Cool	Sample Comments
								BTEX 8021	TPH 8015	Chloride 300	
SW05	Soil	05/16/25	10:12	0-3'	C	1		✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Trevor Wargo		5/16 1537	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8173-1
SDG Number: 03D3836001

Login Number: 8173
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8173-1
SDG Number: 03D3836001

Login Number: 8173
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/19/25 09:36 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:40:29 AM

JOB DESCRIPTION

flatland FNR Frac line
03d3836001

JOB NUMBER

890-8174-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

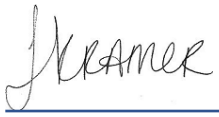
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:40:29 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: flatland FNR Frac line

Laboratory Job ID: 890-8174-1
SDG: 03d3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8174-1
Project: flatland FNR Frac line

Job ID: 890-8174-1 Eurofins Carlsbad

Job Narrative
890-8174-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were listed on the Chain of Custody (COC); however, no samples were received: CS98 (890-8174-1), CS104 (890-8174-2), CS111 (890-8174-3), SW04 (890-8174-4), SW12 (890-8174-5), CS136 (890-8174-6), CS79 (890-8174-7), CS24 (890-8174-8), SW09 (890-8174-9) and CS138 (890-8174-10).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-110496 and analytical batch 880-110487 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS111 (890-8174-3), SW04 (890-8174-4), SW12 (890-8174-5) and CS138 (890-8174-10). 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.

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-110415 and analytical batch 880-110687 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-110415 and analytical batch 880-110687 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS98

Lab Sample ID: 890-8174-1
Matrix: Solid
Date Collected: 05/16/25 11:36
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 08:57	05/20/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:14*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 12:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/21/25 21:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 21:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 21:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:38*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		10.1		mg/Kg			05/20/25 12:15	1

Client Sample ID: CS104

Lab Sample ID: 890-8174-2
Matrix: Solid
Date Collected: 05/16/25 11:31
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 08:57	05/20/25 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:34*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS104

Lab Sample ID: 890-8174-2
Matrix: Solid
Date Collected: 05/16/25 11:31
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/21/25 21:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		05/19/25 08:54	05/21/25 21:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		05/19/25 08:54	05/21/25 21:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		05/19/25 08:54	05/21/25 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:54*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**424**		9.94	mg/Kg			05/20/25 12:22	1

Client Sample ID: CS111

Lab Sample ID: 890-8174-3
Matrix: Solid
Date Collected: 05/16/25 11:28
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 08:57	05/20/25 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:55*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:55*	*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			05/20/25 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/21/25 22:10	1

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS111

Lab Sample ID: 890-8174-3
Matrix: Solid
Date Collected: 05/16/25 11:28
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:10*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**162**		9.92		mg/Kg			05/20/25 12:42	1

Client Sample ID: SW04

Lab Sample ID: 890-8174-4
Matrix: Solid
Date Collected: 05/16/25 12:23
Date Received: 05/16/25 15:57
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 08:57	05/20/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*	*05/20/25 08:57*	*05/20/25 13:15*	*1*
1,4-Difluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*05/20/25 08:57*	*05/20/25 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 13:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/21/25 22:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/19/25 08:54	05/21/25 22:27	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/19/25 08:54	05/21/25 22:27	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/19/25 08:54	05/21/25 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:27*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:27*	*1*

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: SW04

Lab Sample ID: 890-8174-4
Matrix: Solid
Date Collected: 05/16/25 12:23
Date Received: 05/16/25 15:57
Sample Depth: 0-1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		9.90		mg/Kg			05/20/25 12:49	1

Client Sample ID: SW12

Lab Sample ID: 890-8174-5
Matrix: Solid
Date Collected: 05/16/25 12:12
Date Received: 05/16/25 15:57
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 08:57	05/20/25 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*05/20/25 08:57*	*05/20/25 13:36*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*05/20/25 08:57*	*05/20/25 13:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/20/25 13:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/21/25 22:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:42*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		10.0		mg/Kg			05/20/25 12:56	1

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS136

Lab Sample ID: 890-8174-6
Matrix: Solid
Date Collected: 05/16/25 12:56
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 08:57	05/20/25 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*05/20/25 08:57*	*05/20/25 13:56*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:57*	*05/20/25 13:56*	*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			05/20/25 13:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 22:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 22:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 22:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:59*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**152**		10.1		mg/Kg			05/20/25 13:03	1

Client Sample ID: CS79

Lab Sample ID: 890-8174-7
Matrix: Solid
Date Collected: 05/15/25 15:18
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/20/25 08:57	05/20/25 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*05/20/25 08:57*	*05/20/25 14:16*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS79

Lab Sample ID: 890-8174-7
Matrix: Solid
Date Collected: 05/15/25 15:18
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 08:57*	*05/20/25 14:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/20/25 14:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			05/21/25 23:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		05/19/25 08:54	05/21/25 23:15	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		05/19/25 08:54	05/21/25 23:15	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		05/19/25 08:54	05/21/25 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:15*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		9.98	mg/Kg			05/20/25 14:29	1

Client Sample ID: SW09

Lab Sample ID: 890-8174-9
Matrix: Solid
Date Collected: 05/16/25 10:14
Date Received: 05/16/25 15:57
Sample Depth: 0-3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/20/25 08:57	05/20/25 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*05/20/25 08:57*	*05/20/25 14:57*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:57*	*05/20/25 14:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/20/25 14:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			05/21/25 23:32	1

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: SW09

Lab Sample ID: 890-8174-9
Matrix: Solid
Date Collected: 05/16/25 10:14
Date Received: 05/16/25 15:57
Sample Depth: 0-3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/19/25 08:54	05/21/25 23:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/19/25 08:54	05/21/25 23:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/19/25 08:54	05/21/25 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:32*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**297**		10.0		mg/Kg			05/20/25 13:10	1

Client Sample ID: CS138

Lab Sample ID: 890-8174-10
Matrix: Solid
Date Collected: 05/16/25 10:07
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 08:57	05/20/25 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*05/20/25 08:57*	*05/20/25 15:18*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*05/20/25 08:57*	*05/20/25 15:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 15:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 23:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 23:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 23:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:47*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:47*	*1*

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS138
Date Collected: 05/16/25 10:07
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8174-10
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	475		10.1		mg/Kg			05/20/25 13:17	1

Surrogate Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8174-1	CS98	107	108
890-8174-1 MS	CS98	113	105
890-8174-1 MSD	CS98	107	98
890-8174-2	CS104	129	107
890-8174-3	CS111	130	113
890-8174-4	SW04	157 S1+	133 S1+
890-8174-5	SW12	132 S1+	111
890-8174-6	CS136	125	104
890-8174-7	CS79	128	107
890-8174-9	SW09	126	104
890-8174-10	CS138	130	106
LCS 880-110496/1-A	Lab Control Sample	106	99
LCSD 880-110496/2-A	Lab Control Sample Dup	116	100
MB 880-110496/5-A	Method Blank	164 S1+	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8167-A-5-C MS	Matrix Spike	80	71
890-8167-A-5-D MSD	Matrix Spike Duplicate	96	94
890-8174-1	CS98	105	94
890-8174-2	CS104	104	94
890-8174-3	CS111	102	92
890-8174-4	SW04	108	96
890-8174-5	SW12	107	96
890-8174-6	CS136	105	98
890-8174-7	CS79	106	96
890-8174-9	SW09	105	95
890-8174-10	CS138	106	95
LCS 880-110415/2-A	Lab Control Sample	97	100
LCSD 880-110415/3-A	Lab Control Sample Dup	113	115
MB 880-110415/1-A	Method Blank	130	120

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110496/5-A
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110496

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 08:57	05/20/25 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*	*05/20/25 08:57*	*05/20/25 11:45*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/20/25 08:57*	*05/20/25 11:45*	*1*

Lab Sample ID: LCS 880-110496/1-A
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110496

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08280		mg/Kg		83	70 - 130		
Toluene			0.100	0.08094		mg/Kg		81	70 - 130		
Ethylbenzene			0.100	0.08591		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1758		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08924		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-110496/2-A
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110496

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09598		mg/Kg		96	70 - 130	15	35
Toluene			0.100	0.08219		mg/Kg		82	70 - 130	2	35
Ethylbenzene			0.100	0.1002		mg/Kg		100	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1801		mg/Kg		90	70 - 130	2	35
o-Xylene			0.100	0.1003		mg/Kg		100	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-8174-1 MS
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: CS98
Prep Type: Total/NA
Prep Batch: 110496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09302		mg/Kg		93	70 - 130		
Toluene	<0.00200	U	0.100	0.07778		mg/Kg		78	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8174-1 MS
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: CS98
Prep Type: Total/NA
Prep Batch: 110496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08831		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1827		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.100	0.09317		mg/Kg		93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-8174-1 MSD
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: CS98
Prep Type: Total/NA
Prep Batch: 110496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08918		mg/Kg		89	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.07752		mg/Kg		78	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.09067		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1766		mg/Kg		88	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.08919		mg/Kg		89	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110415/1-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110415

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/25 08:53	05/21/25 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/25 08:53	05/21/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/25 08:53	05/21/25 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*05/19/25 08:53*	*05/21/25 15:49*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/19/25 08:53*	*05/21/25 15:49*	*1*

Lab Sample ID: LCS 880-110415/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110415

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1095		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110415/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110415

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-110415/3-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110415

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1129		mg/Kg		113	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1119		mg/Kg		112	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-8167-A-5-C MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	567.8	F1	mg/Kg		57	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	681.6	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 890-8167-A-5-D MSD
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110415

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	893.4	F2	mg/Kg		89	70 - 130	45	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	988.1	F2	mg/Kg		96	70 - 130	37	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110448/1-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 11:21	1

Lab Sample ID: LCS 880-110448/2-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.7		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110448/3-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8174-10 MS
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: CS138
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	475		253	738.0		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8174-10 MSD
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: CS138
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	475		253	732.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: MB 880-110436/1-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 14:08	1

Lab Sample ID: LCS 880-110436/2-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110436/3-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.1		mg/Kg		104	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-8174-7 MS
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: CS79
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	290		250	564.0		mg/Kg		110	90 - 110

Lab Sample ID: 890-8174-7 MSD
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: CS79
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	290		250	564.0		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

GC VOA

Analysis Batch: 110487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	8021B	110496
890-8174-2	CS104	Total/NA	Solid	8021B	110496
890-8174-3	CS111	Total/NA	Solid	8021B	110496
890-8174-4	SW04	Total/NA	Solid	8021B	110496
890-8174-5	SW12	Total/NA	Solid	8021B	110496
890-8174-6	CS136	Total/NA	Solid	8021B	110496
890-8174-7	CS79	Total/NA	Solid	8021B	110496
890-8174-9	SW09	Total/NA	Solid	8021B	110496
890-8174-10	CS138	Total/NA	Solid	8021B	110496
MB 880-110496/5-A	Method Blank	Total/NA	Solid	8021B	110496
LCS 880-110496/1-A	Lab Control Sample	Total/NA	Solid	8021B	110496
LCSD 880-110496/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110496
890-8174-1 MS	CS98	Total/NA	Solid	8021B	110496
890-8174-1 MSD	CS98	Total/NA	Solid	8021B	110496

Prep Batch: 110496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	5035	
890-8174-2	CS104	Total/NA	Solid	5035	
890-8174-3	CS111	Total/NA	Solid	5035	
890-8174-4	SW04	Total/NA	Solid	5035	
890-8174-5	SW12	Total/NA	Solid	5035	
890-8174-6	CS136	Total/NA	Solid	5035	
890-8174-7	CS79	Total/NA	Solid	5035	
890-8174-9	SW09	Total/NA	Solid	5035	
890-8174-10	CS138	Total/NA	Solid	5035	
MB 880-110496/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110496/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110496/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8174-1 MS	CS98	Total/NA	Solid	5035	
890-8174-1 MSD	CS98	Total/NA	Solid	5035	

Analysis Batch: 110682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	Total BTEX	
890-8174-2	CS104	Total/NA	Solid	Total BTEX	
890-8174-3	CS111	Total/NA	Solid	Total BTEX	
890-8174-4	SW04	Total/NA	Solid	Total BTEX	
890-8174-5	SW12	Total/NA	Solid	Total BTEX	
890-8174-6	CS136	Total/NA	Solid	Total BTEX	
890-8174-7	CS79	Total/NA	Solid	Total BTEX	
890-8174-9	SW09	Total/NA	Solid	Total BTEX	
890-8174-10	CS138	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	8015NM Prep	
890-8174-2	CS104	Total/NA	Solid	8015NM Prep	
890-8174-3	CS111	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

GC Semi VOA (Continued)

Prep Batch: 110415 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-4	SW04	Total/NA	Solid	8015NM Prep	
890-8174-5	SW12	Total/NA	Solid	8015NM Prep	
890-8174-6	CS136	Total/NA	Solid	8015NM Prep	
890-8174-7	CS79	Total/NA	Solid	8015NM Prep	
890-8174-9	SW09	Total/NA	Solid	8015NM Prep	
890-8174-10	CS138	Total/NA	Solid	8015NM Prep	
MB 880-110415/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110415/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8167-A-5-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8167-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	8015B NM	110415
890-8174-2	CS104	Total/NA	Solid	8015B NM	110415
890-8174-3	CS111	Total/NA	Solid	8015B NM	110415
890-8174-4	SW04	Total/NA	Solid	8015B NM	110415
890-8174-5	SW12	Total/NA	Solid	8015B NM	110415
890-8174-6	CS136	Total/NA	Solid	8015B NM	110415
890-8174-7	CS79	Total/NA	Solid	8015B NM	110415
890-8174-9	SW09	Total/NA	Solid	8015B NM	110415
890-8174-10	CS138	Total/NA	Solid	8015B NM	110415
MB 880-110415/1-A	Method Blank	Total/NA	Solid	8015B NM	110415
LCS 880-110415/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110415
LCSD 880-110415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110415
890-8167-A-5-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110415
890-8167-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110415

Analysis Batch: 110724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	8015 NM	
890-8174-2	CS104	Total/NA	Solid	8015 NM	
890-8174-3	CS111	Total/NA	Solid	8015 NM	
890-8174-4	SW04	Total/NA	Solid	8015 NM	
890-8174-5	SW12	Total/NA	Solid	8015 NM	
890-8174-6	CS136	Total/NA	Solid	8015 NM	
890-8174-7	CS79	Total/NA	Solid	8015 NM	
890-8174-9	SW09	Total/NA	Solid	8015 NM	
890-8174-10	CS138	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-7	CS79	Soluble	Solid	DI Leach	
MB 880-110436/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110436/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110436/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8174-7 MS	CS79	Soluble	Solid	DI Leach	
890-8174-7 MSD	CS79	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

HPLC/IC

Leach Batch: 110448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Soluble	Solid	DI Leach	
890-8174-2	CS104	Soluble	Solid	DI Leach	
890-8174-3	CS111	Soluble	Solid	DI Leach	
890-8174-4	SW04	Soluble	Solid	DI Leach	
890-8174-5	SW12	Soluble	Solid	DI Leach	
890-8174-6	CS136	Soluble	Solid	DI Leach	
890-8174-9	SW09	Soluble	Solid	DI Leach	
890-8174-10	CS138	Soluble	Solid	DI Leach	
MB 880-110448/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8174-10 MS	CS138	Soluble	Solid	DI Leach	
890-8174-10 MSD	CS138	Soluble	Solid	DI Leach	

Analysis Batch: 110516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Soluble	Solid	300.0	110448
890-8174-2	CS104	Soluble	Solid	300.0	110448
890-8174-3	CS111	Soluble	Solid	300.0	110448
890-8174-4	SW04	Soluble	Solid	300.0	110448
890-8174-5	SW12	Soluble	Solid	300.0	110448
890-8174-6	CS136	Soluble	Solid	300.0	110448
890-8174-9	SW09	Soluble	Solid	300.0	110448
890-8174-10	CS138	Soluble	Solid	300.0	110448
MB 880-110448/1-A	Method Blank	Soluble	Solid	300.0	110448
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	300.0	110448
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110448
890-8174-10 MS	CS138	Soluble	Solid	300.0	110448
890-8174-10 MSD	CS138	Soluble	Solid	300.0	110448

Analysis Batch: 110526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-7	CS79	Soluble	Solid	300.0	110436
MB 880-110436/1-A	Method Blank	Soluble	Solid	300.0	110436
LCS 880-110436/2-A	Lab Control Sample	Soluble	Solid	300.0	110436
LCSD 880-110436/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110436
890-8174-7 MS	CS79	Soluble	Solid	300.0	110436
890-8174-7 MSD	CS79	Soluble	Solid	300.0	110436

Lab Chronicle

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS98

Lab Sample ID: 890-8174-1
Matrix: Solid
Date Collected: 05/16/25 11:36
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 21:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 21:38	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:15	SMC	EET MID

Client Sample ID: CS104

Lab Sample ID: 890-8174-2
Matrix: Solid
Date Collected: 05/16/25 11:31
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 21:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 21:54	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:22	SMC	EET MID

Client Sample ID: CS111

Lab Sample ID: 890-8174-3
Matrix: Solid
Date Collected: 05/16/25 11:28
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 22:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 22:10	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:42	SMC	EET MID

Client Sample ID: SW04

Lab Sample ID: 890-8174-4
Matrix: Solid
Date Collected: 05/16/25 12:23
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 13:15	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: SW04

Lab Sample ID: 890-8174-4
Matrix: Solid
Date Collected: 05/16/25 12:23
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110724	05/21/25 22:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 22:27	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:49	SMC	EET MID

Client Sample ID: SW12

Lab Sample ID: 890-8174-5
Matrix: Solid
Date Collected: 05/16/25 12:12
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 13:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 22:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 22:42	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:56	SMC	EET MID

Client Sample ID: CS136

Lab Sample ID: 890-8174-6
Matrix: Solid
Date Collected: 05/16/25 12:56
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 22:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 22:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:03	SMC	EET MID

Client Sample ID: CS79

Lab Sample ID: 890-8174-7
Matrix: Solid
Date Collected: 05/15/25 15:18
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 14:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 23:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 23:15	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS79

Date Collected: 05/15/25 15:18
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 14:29	SMC	EET MID

Client Sample ID: SW09

Date Collected: 05/16/25 10:14
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 14:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 23:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 23:32	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:10	SMC	EET MID

Client Sample ID: CS138

Date Collected: 05/16/25 10:07
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 15:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 23:47	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:17	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8174-1	CS98	Solid	05/16/25 11:36	05/16/25 15:57	2
890-8174-2	CS104	Solid	05/16/25 11:31	05/16/25 15:57	1
890-8174-3	CS111	Solid	05/16/25 11:28	05/16/25 15:57	2
890-8174-4	SW04	Solid	05/16/25 12:23	05/16/25 15:57	0-1
890-8174-5	SW12	Solid	05/16/25 12:12	05/16/25 15:57	0-1
890-8174-6	CS136	Solid	05/16/25 12:56	05/16/25 15:57	1
890-8174-7	CS79	Solid	05/15/25 15:18	05/16/25 15:57	1
890-8174-9	SW09	Solid	05/16/25 10:14	05/16/25 15:57	0-3
890-8174-10	CS138	Solid	05/16/25 10:07	05/16/25 15:57	2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-8174 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☒ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Tracee
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	TPH 8015	Chloride 300	Sample Comments
CS98	S	05-6-25	1136	2	C	1		✓	✓	✓	
CS104		05-16-25	1131	1				✓	✓	✓	
CS111			1128	2				✓	✓	✓	
SW04			~~0-1~~ 1123	0-1				✓	✓	✓	
SW12			~~0-1~~ 1142	0-1				✓	✓	✓	
CS136			12:56	1				✓	✓	✓	
CS79		5/15/25	15:18	1'				✓	✓	✓	
CS24		05/16/25	9:03	1'							
SW09			10:14	0-3'							
CS138			10:07	2'				✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Trevor Wargo		5/16 1557	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins
Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5150.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8174-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: flatland FNR Frac line	Project #: 89000145			
Site: N/A	SSOW#: N/A			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS98 (890-8174-1)	5/16/25	11:36 Mountain	G	Solid			X	X	X	X	X	1	
CS104 (890-8174-2)	5/16/25	11:31 Mountain	G	Solid			X	X	X	X	X	1	
CS111 (890-8174-3)	5/16/25	11:28 Mountain	G	Solid			X	X	X	X	X	1	
SW04 (890-8174-4)	5/16/25	12:23 Mountain	G	Solid			X	X	X	X	X	1	
SW12 (890-8174-5)	5/16/25	12:12 Mountain	G	Solid			X	X	X	X	X	1	
CS136 (890-8174-6)	5/16/25	12:56 Mountain	G	Solid			X	X	X	X	X	1	
CS79 (890-8174-7)	5/15/25	15:18 Mountain	G	Solid			X	X	X	X	X	1	
SW09 (890-8174-9)	5/16/25	10:14 Mountain	G	Solid			X	X	X	X	X	1	
CS138 (890-8174-10)	5/16/25	10:07 Mountain	G	Solid			X	X	X	X	X	1	

Preservation Codes: -
Other: N/A

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/19 1630				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				[signature]	5/20/25 0800	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

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5/22/2025
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Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8174-1
SDG Number: 03d3836001

Login Number: 8174
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8174-1
SDG Number: 03d3836001

Login Number: 8174
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:41:31 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8176-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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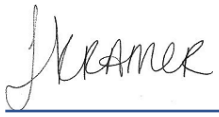
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:41:31 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8176-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8176-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1 Eurofins Carlsbad

Job Narrative
890-8176-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 153 (890-8176-1), CS 157 (890-8176-2), CS 158 (890-8176-3), CS 175 (890-8176-4), CS 14 (890-8176-5), CS 13 (890-8176-6), CS 15 (890-8176-7), CS 173 (890-8176-8), CS 30 (890-8176-9) and CS 155 (890-8176-10).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-110498 and analytical batch 880-110490 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-8175-A-2-C MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-110482 and analytical batch 880-110685 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 153

Lab Sample ID: 890-8176-1
Matrix: Solid
Date Collected: 05/15/25 11:36
Date Received: 05/16/25 15:57
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		05/20/25 09:01	05/20/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:49	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:49	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		05/20/25 09:01	05/20/25 11:49	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:49	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		05/20/25 09:01	05/20/25 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 11:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 21:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 21:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 21:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:05*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		10.1		mg/Kg			05/20/25 19:05	1

Client Sample ID: CS 157

Lab Sample ID: 890-8176-2
Matrix: Solid
Date Collected: 05/15/25 11:27
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:09*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 157

Date Collected: 05/15/25 11:27
Date Received: 05/16/25 15:57
Sample Depth: 3'

Lab Sample ID: 890-8176-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 12:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/21/25 21:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/20/25 07:47	05/21/25 21:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/20/25 07:47	05/21/25 21:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/20/25 07:47	05/21/25 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:38*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		10.0	mg/Kg			05/20/25 19:12	1

Client Sample ID: CS 158

Date Collected: 05/15/25 11:23
Date Received: 05/16/25 15:57
Sample Depth: 3'

Lab Sample ID: 890-8176-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 09:01	05/20/25 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:30*	*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			05/20/25 12:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/21/25 21:54	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 158

Lab Sample ID: 890-8176-3
Matrix: Solid
Date Collected: 05/15/25 11:23
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 21:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 21:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:54*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**257**		10.1		mg/Kg			05/20/25 19:19	1

Client Sample ID: CS 175

Lab Sample ID: 890-8176-4
Matrix: Solid
Date Collected: 05/15/25 10:02
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 09:01	05/20/25 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:50*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 12:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 22:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 22:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 22:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:10*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 175

Lab Sample ID: 890-8176-4
Matrix: Solid
Date Collected: 05/15/25 10:02
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		10.1		mg/Kg			05/20/25 19:40	1

Client Sample ID: CS 14

Lab Sample ID: 890-8176-5
Matrix: Solid
Date Collected: 05/15/25 08:52
Date Received: 05/16/25 15:57
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:11*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/20/25 13:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/21/25 22:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 22:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 22:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:27*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		9.90		mg/Kg			05/20/25 19:47	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 13

Lab Sample ID: 890-8176-6
Matrix: Solid
Date Collected: 05/15/25 08:48
Date Received: 05/16/25 15:57
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:31*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:31*	*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			05/20/25 13:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/21/25 22:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 22:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 22:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:42*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**721**		9.90		mg/Kg			05/20/25 19:54	1

Client Sample ID: CS 15

Lab Sample ID: 890-8176-7
Matrix: Solid
Date Collected: 05/15/25 08:57
Date Received: 05/16/25 15:57
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/20/25 09:01	05/20/25 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:52*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 15

Lab Sample ID: 890-8176-7
Matrix: Solid
Date Collected: 05/15/25 08:57
Date Received: 05/16/25 15:57
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/20/25 13:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/21/25 22:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		05/20/25 07:47	05/21/25 22:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		05/20/25 07:47	05/21/25 22:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		05/20/25 07:47	05/21/25 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*96*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:59*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		9.92	mg/Kg			05/20/25 20:01	1

Client Sample ID: CS 173

Lab Sample ID: 890-8176-8
Matrix: Solid
Date Collected: 05/15/25 10:31
Date Received: 05/16/25 15:57
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		05/20/25 09:01	05/20/25 14:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 14:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 14:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/20/25 09:01	05/20/25 14:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 14:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/20/25 09:01	05/20/25 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:12*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/20/25 14:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/21/25 23:15	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 173

Lab Sample ID: 890-8176-8
Matrix: Solid
Date Collected: 05/15/25 10:31
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/21/25 23:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/21/25 23:15	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/21/25 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:15*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**374**		9.90		mg/Kg			05/20/25 20:08	1

Client Sample ID: CS 30

Lab Sample ID: 890-8176-9
Matrix: Solid
Date Collected: 05/15/25 09:39
Date Received: 05/16/25 15:57
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 09:01	05/20/25 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:33*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 14:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 23:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 23:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 23:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:32*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:32*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 30

Lab Sample ID: 890-8176-9
Matrix: Solid
Date Collected: 05/15/25 09:39
Date Received: 05/16/25 15:57
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	301		9.96		mg/Kg			05/20/25 20:16	1

Client Sample ID: CS 155

Lab Sample ID: 890-8176-10
Matrix: Solid
Date Collected: 05/15/25 11:34
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 09:01	05/20/25 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:53*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 14:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/21/25 23:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 23:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 23:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:47*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		9.98		mg/Kg			05/20/25 20:37	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8176-1	CS 153	104	91
890-8176-1 MS	CS 153	94	104
890-8176-1 MSD	CS 153	97	100
890-8176-2	CS 157	87	101
890-8176-3	CS 158	91	104
890-8176-4	CS 175	97	100
890-8176-5	CS 14	76	107
890-8176-6	CS 13	85	100
890-8176-7	CS 15	91	101
890-8176-8	CS 173	90	105
890-8176-9	CS 30	99	98
890-8176-10	CS 155	89	101
LCS 880-110498/1-A	Lab Control Sample	94	105
LCSD 880-110498/2-A	Lab Control Sample Dup	100	102
MB 880-110498/5-A	Method Blank	99	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8175-A-2-C MS	Matrix Spike	57 S1-	66 S1-
890-8175-A-2-D MSD	Matrix Spike Duplicate	95	87
890-8176-1	CS 153	96	95
890-8176-2	CS 157	91	91
890-8176-3	CS 158	96	95
890-8176-4	CS 175	94	95
890-8176-5	CS 14	96	95
890-8176-6	CS 13	98	97
890-8176-7	CS 15	96	98
890-8176-8	CS 173	91	91
890-8176-9	CS 30	89	89
890-8176-10	CS 155	90	89
LCS 880-110482/2-A	Lab Control Sample	112	101
LCSD 880-110482/3-A	Lab Control Sample Dup	95	104
MB 880-110482/1-A	Method Blank	101	100

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110498/5-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110498

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 09:01	05/20/25 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:27*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:27*	*1*

Lab Sample ID: LCS 880-110498/1-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110498

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09429		mg/Kg		94	70 - 130		
Toluene			0.100	0.08841		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08548		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1753		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09063		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-110498/2-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110498

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09354		mg/Kg		94	70 - 130	1	35
Toluene			0.100	0.09459		mg/Kg		95	70 - 130	7	35
Ethylbenzene			0.100	0.09209		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1917		mg/Kg		96	70 - 130	9	35
o-Xylene			0.100	0.09882		mg/Kg		99	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-8176-1 MS
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: CS 153
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.07962		mg/Kg		80	70 - 130		
Toluene	<0.00200	U	0.100	0.07033		mg/Kg		70	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8176-1 MS
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: CS 153
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.100	0.06619	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1347	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.06868	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-8176-1 MSD
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: CS 153
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08585		mg/Kg		86	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.08228		mg/Kg		82	70 - 130	16	35
Ethylbenzene	<0.00200	U F1	0.100	0.07826		mg/Kg		78	70 - 130	17	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1604		mg/Kg		80	70 - 130	17	35
o-Xylene	<0.00200	U F1	0.100	0.08219		mg/Kg		82	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110482/1-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110482

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/20/25 07:47*	*05/21/25 15:49*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/20/25 07:47*	*05/21/25 15:49*	*1*

Lab Sample ID: LCS 880-110482/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110482

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1058		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1022		mg/Kg		102	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110482/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110482

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-110482/3-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110482

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1070		mg/Kg		107	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1111		mg/Kg		111	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-8175-A-2-C MS
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	477.1	F1	mg/Kg		48	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	996	583.7	F1	mg/Kg		59	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	57	S1-	70 - 130
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: 890-8175-A-2-D MSD
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	738.5	F2	mg/Kg		74	70 - 130	43	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	996	738.4	F2	mg/Kg		74	70 - 130	23	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110438/1-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 18:15	1

Lab Sample ID: LCS 880-110438/2-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.5		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110438/3-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8176-9 MS
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: CS 30
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	301		249	571.8		mg/Kg		109	90 - 110		

Lab Sample ID: 890-8176-9 MSD
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: CS 30
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	301		249	571.6		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

GC VOA

Analysis Batch: 110490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	8021B	110498
890-8176-2	CS 157	Total/NA	Solid	8021B	110498
890-8176-3	CS 158	Total/NA	Solid	8021B	110498
890-8176-4	CS 175	Total/NA	Solid	8021B	110498
890-8176-5	CS 14	Total/NA	Solid	8021B	110498
890-8176-6	CS 13	Total/NA	Solid	8021B	110498
890-8176-7	CS 15	Total/NA	Solid	8021B	110498
890-8176-8	CS 173	Total/NA	Solid	8021B	110498
890-8176-9	CS 30	Total/NA	Solid	8021B	110498
890-8176-10	CS 155	Total/NA	Solid	8021B	110498
MB 880-110498/5-A	Method Blank	Total/NA	Solid	8021B	110498
LCS 880-110498/1-A	Lab Control Sample	Total/NA	Solid	8021B	110498
LCSD 880-110498/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110498
890-8176-1 MS	CS 153	Total/NA	Solid	8021B	110498
890-8176-1 MSD	CS 153	Total/NA	Solid	8021B	110498

Prep Batch: 110498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	5035	
890-8176-2	CS 157	Total/NA	Solid	5035	
890-8176-3	CS 158	Total/NA	Solid	5035	
890-8176-4	CS 175	Total/NA	Solid	5035	
890-8176-5	CS 14	Total/NA	Solid	5035	
890-8176-6	CS 13	Total/NA	Solid	5035	
890-8176-7	CS 15	Total/NA	Solid	5035	
890-8176-8	CS 173	Total/NA	Solid	5035	
890-8176-9	CS 30	Total/NA	Solid	5035	
890-8176-10	CS 155	Total/NA	Solid	5035	
MB 880-110498/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110498/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110498/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8176-1 MS	CS 153	Total/NA	Solid	5035	
890-8176-1 MSD	CS 153	Total/NA	Solid	5035	

Analysis Batch: 110676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	Total BTEX	
890-8176-2	CS 157	Total/NA	Solid	Total BTEX	
890-8176-3	CS 158	Total/NA	Solid	Total BTEX	
890-8176-4	CS 175	Total/NA	Solid	Total BTEX	
890-8176-5	CS 14	Total/NA	Solid	Total BTEX	
890-8176-6	CS 13	Total/NA	Solid	Total BTEX	
890-8176-7	CS 15	Total/NA	Solid	Total BTEX	
890-8176-8	CS 173	Total/NA	Solid	Total BTEX	
890-8176-9	CS 30	Total/NA	Solid	Total BTEX	
890-8176-10	CS 155	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

GC Semi VOA

Prep Batch: 110482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	8015NM Prep	
890-8176-2	CS 157	Total/NA	Solid	8015NM Prep	
890-8176-3	CS 158	Total/NA	Solid	8015NM Prep	
890-8176-4	CS 175	Total/NA	Solid	8015NM Prep	
890-8176-5	CS 14	Total/NA	Solid	8015NM Prep	
890-8176-6	CS 13	Total/NA	Solid	8015NM Prep	
890-8176-7	CS 15	Total/NA	Solid	8015NM Prep	
890-8176-8	CS 173	Total/NA	Solid	8015NM Prep	
890-8176-9	CS 30	Total/NA	Solid	8015NM Prep	
890-8176-10	CS 155	Total/NA	Solid	8015NM Prep	
MB 880-110482/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110482/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8175-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8175-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	8015B NM	110482
890-8176-2	CS 157	Total/NA	Solid	8015B NM	110482
890-8176-3	CS 158	Total/NA	Solid	8015B NM	110482
890-8176-4	CS 175	Total/NA	Solid	8015B NM	110482
890-8176-5	CS 14	Total/NA	Solid	8015B NM	110482
890-8176-6	CS 13	Total/NA	Solid	8015B NM	110482
890-8176-7	CS 15	Total/NA	Solid	8015B NM	110482
890-8176-8	CS 173	Total/NA	Solid	8015B NM	110482
890-8176-9	CS 30	Total/NA	Solid	8015B NM	110482
890-8176-10	CS 155	Total/NA	Solid	8015B NM	110482
MB 880-110482/1-A	Method Blank	Total/NA	Solid	8015B NM	110482
LCS 880-110482/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110482
LCSD 880-110482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110482
890-8175-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110482
890-8175-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110482

Analysis Batch: 110730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	8015 NM	
890-8176-2	CS 157	Total/NA	Solid	8015 NM	
890-8176-3	CS 158	Total/NA	Solid	8015 NM	
890-8176-4	CS 175	Total/NA	Solid	8015 NM	
890-8176-5	CS 14	Total/NA	Solid	8015 NM	
890-8176-6	CS 13	Total/NA	Solid	8015 NM	
890-8176-7	CS 15	Total/NA	Solid	8015 NM	
890-8176-8	CS 173	Total/NA	Solid	8015 NM	
890-8176-9	CS 30	Total/NA	Solid	8015 NM	
890-8176-10	CS 155	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

HPLC/IC

Leach Batch: 110438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Soluble	Solid	DI Leach	
890-8176-2	CS 157	Soluble	Solid	DI Leach	
890-8176-3	CS 158	Soluble	Solid	DI Leach	
890-8176-4	CS 175	Soluble	Solid	DI Leach	
890-8176-5	CS 14	Soluble	Solid	DI Leach	
890-8176-6	CS 13	Soluble	Solid	DI Leach	
890-8176-7	CS 15	Soluble	Solid	DI Leach	
890-8176-8	CS 173	Soluble	Solid	DI Leach	
890-8176-9	CS 30	Soluble	Solid	DI Leach	
890-8176-10	CS 155	Soluble	Solid	DI Leach	
MB 880-110438/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110438/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8176-9 MS	CS 30	Soluble	Solid	DI Leach	
890-8176-9 MSD	CS 30	Soluble	Solid	DI Leach	

Analysis Batch: 110534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Soluble	Solid	300.0	110438
890-8176-2	CS 157	Soluble	Solid	300.0	110438
890-8176-3	CS 158	Soluble	Solid	300.0	110438
890-8176-4	CS 175	Soluble	Solid	300.0	110438
890-8176-5	CS 14	Soluble	Solid	300.0	110438
890-8176-6	CS 13	Soluble	Solid	300.0	110438
890-8176-7	CS 15	Soluble	Solid	300.0	110438
890-8176-8	CS 173	Soluble	Solid	300.0	110438
890-8176-9	CS 30	Soluble	Solid	300.0	110438
890-8176-10	CS 155	Soluble	Solid	300.0	110438
MB 880-110438/1-A	Method Blank	Soluble	Solid	300.0	110438
LCS 880-110438/2-A	Lab Control Sample	Soluble	Solid	300.0	110438
LCSD 880-110438/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110438
890-8176-9 MS	CS 30	Soluble	Solid	300.0	110438
890-8176-9 MSD	CS 30	Soluble	Solid	300.0	110438

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 153

Date Collected: 05/15/25 11:36
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 11:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 11:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 21:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 21:05	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:05	SMC	EET MID

Client Sample ID: CS 157

Date Collected: 05/15/25 11:27
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 12:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 21:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 21:38	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:12	SMC	EET MID

Client Sample ID: CS 158

Date Collected: 05/15/25 11:23
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 12:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 21:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 21:54	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:19	SMC	EET MID

Client Sample ID: CS 175

Date Collected: 05/15/25 10:02
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 12:50	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 175

Date Collected: 05/15/25 10:02
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110730	05/21/25 22:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 22:10	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:40	SMC	EET MID

Client Sample ID: CS 14

Date Collected: 05/15/25 08:52
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 13:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 22:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 22:27	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:47	SMC	EET MID

Client Sample ID: CS 13

Date Collected: 05/15/25 08:48
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 13:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 22:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 22:42	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:54	SMC	EET MID

Client Sample ID: CS 15

Date Collected: 05/15/25 08:57
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 22:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 22:59	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 15

Lab Sample ID: 890-8176-7
Matrix: Solid
Date Collected: 05/15/25 08:57
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:01	SMC	EET MID

Client Sample ID: CS 173

Lab Sample ID: 890-8176-8
Matrix: Solid
Date Collected: 05/15/25 10:31
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 14:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 23:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 23:15	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:08	SMC	EET MID

Client Sample ID: CS 30

Lab Sample ID: 890-8176-9
Matrix: Solid
Date Collected: 05/15/25 09:39
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 14:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 23:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 23:32	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:16	SMC	EET MID

Client Sample ID: CS 155

Lab Sample ID: 890-8176-10
Matrix: Solid
Date Collected: 05/15/25 11:34
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 23:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:37	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8176-1	CS 153	Solid	05/15/25 11:36	05/16/25 15:57	3'
890-8176-2	CS 157	Solid	05/15/25 11:27	05/16/25 15:57	3'
890-8176-3	CS 158	Solid	05/15/25 11:23	05/16/25 15:57	3'
890-8176-4	CS 175	Solid	05/15/25 10:02	05/16/25 15:57	3'
890-8176-5	CS 14	Solid	05/15/25 08:52	05/16/25 15:57	1'
890-8176-6	CS 13	Solid	05/15/25 08:48	05/16/25 15:57	1'
890-8176-7	CS 15	Solid	05/15/25 08:57	05/16/25 15:57	1'
890-8176-8	CS 173	Solid	05/15/25 10:31	05/16/25 15:57	3'
890-8176-9	CS 30	Solid	05/15/25 09:39	05/16/25 15:57	2'
890-8176-10	CS 155	Solid	05/15/25 11:34	05/16/25 15:57	3'

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5/22/2025

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page ___1__ of ___1___

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895 Email:	hgreen@ensolum.com	

Work Order Comments
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☒ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TWmeter	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

ANALYSIS REQUEST

890-8176 Chain of Custody

Preservative Codes
None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	TPH 8015	Chloride 300	Sample Comments
CS 153	Soil	05/15/25	11:36	3'	C	1		✓	✓	✓	
CS 157			11:27	3'							
CS 158			11:23	3'							
CS 175			10:09	3'							
CS 14			8:52	1'							
CS 13			8:48	1'							
CS 19			8:57	1'							
CS 173			10:31	3'							
CS 30			9:39	2'							
CS 155	↓	↓	11:31	3'	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Trevor Wargo		5/16 1557			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5152.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8176-1
Address: 1211 W. Florida Ave,	Due Date Requested: 5/22/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 153 (890-8176-1)	5/15/25	11:36 Mountain	G	Solid			X	X	X	X	X	1	
CS 157 (890-8176-2)	5/15/25	11:27 Mountain	G	Solid			X	X	X	X	X	1	
CS 158 (890-8176-3)	5/15/25	11:23 Mountain	G	Solid			X	X	X	X	X	1	
CS 175 (890-8176-4)	5/15/25	10:02 Mountain	G	Solid			X	X	X	X	X	1	
CS 14 (890-8176-5)	5/15/25	08:52 Mountain	G	Solid			X	X	X	X	X	1	
CS 13 (890-8176-6)	5/15/25	08:48 Mountain	G	Solid			X	X	X	X	X	1	
CS 15 (890-8176-7)	5/15/25	08:57 Mountain	G	Solid			X	X	X	X	X	1	
CS 173 (890-8176-8)	5/15/25	10:31 Mountain	G	Solid			X	X	X	X	X	1	
CS 30 (890-8176-9)	5/15/25	09:39 Mountain	G	Solid			X	X	X	X	X	1	

Preservation Codes: -

Other: N/A

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	5/19 1630				
	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 5/20/25 0800	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5151.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8175-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 90 (890-8175-10)	5/15/25	15:18 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/19 1630		[signature]		
2	Relinquished by:	Date/Time:	Company	Received by: Teddy Randolph	Date/Time: 5/20/25 0800	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8176-1
SDG Number: 03D3836001

Login Number: 8176
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8176-1
SDG Number: 03D3836001

Login Number: 8176
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:42:05 AM

JOB DESCRIPTION

Flatland FNR Frac line
03d3836001

JOB NUMBER

890-8177-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

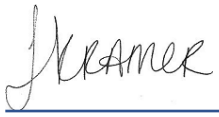
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:42:05 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR Frac line

Laboratory Job ID: 890-8177-1
SDG: 03d3836001

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Definitions/Glossary

Client: Ensolum Job ID: 890-8177-1
Project/Site: Flatland FNR Frac line SDG: 03d3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8177-1
Project: Flatland FNR Frac line

Job ID: 890-8177-1 Eurofins Carlsbad

Job Narrative
890-8177-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 20 (890-8177-1), CS 34 (890-8177-2), CS 60 (890-8177-3), CS 62 (890-8177-4), CS 63 (890-8177-5), CS 137 (890-8177-6), CS 151 (890-8177-7), CS 86 (890-8177-8), CS 87 (890-8177-9) and CS 97 (890-8177-10).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-110498 and analytical batch 880-110490 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-8175-A-2-C MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-110482 and analytical batch 880-110685 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110451 and analytical batch 880-110505 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.

The associated samples are: CS 86 (890-8177-8), CS 87 (890-8177-9), CS 97 (890-8177-10), (890-8173-A-1-D), (890-8173-A-1-E MS) and (890-8173-A-1-F MSD).

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: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 20

Lab Sample ID: 890-8177-1
Matrix: Solid
Date Collected: 05/16/25 10:35
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:00*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 18:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/22/25 00:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/22/25 00:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/22/25 00:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/22/25 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/20/25 07:47*	*05/22/25 00:04*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/20/25 07:47*	*05/22/25 00:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**404**		10.1		mg/Kg			05/20/25 13:37	1

Client Sample ID: CS 34

Lab Sample ID: 890-8177-2
Matrix: Solid
Date Collected: 05/16/25 10:37
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:20*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 34

Lab Sample ID: 890-8177-2
Matrix: Solid
Date Collected: 05/16/25 10:37
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 18:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/22/25 02:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/20/25 07:59	05/22/25 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/20/25 07:59	05/22/25 02:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/20/25 07:59	05/22/25 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/20/25 07:59*	*05/22/25 02:10*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/20/25 07:59*	*05/22/25 02:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**575**		9.96	mg/Kg			05/20/25 13:44	1

Client Sample ID: CS 60

Lab Sample ID: 890-8177-3
Matrix: Solid
Date Collected: 05/16/25 10:38
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/20/25 09:01	05/20/25 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:41*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/20/25 18:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/22/25 02:56	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 60

Lab Sample ID: 890-8177-3
Matrix: Solid
Date Collected: 05/16/25 10:38
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 02:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 02:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/20/25 07:59*	*05/22/25 02:56*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/20/25 07:59*	*05/22/25 02:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**182**		9.98		mg/Kg			05/20/25 14:04	1

Client Sample ID: CS 62

Lab Sample ID: 890-8177-4
Matrix: Solid
Date Collected: 05/16/25 10:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/20/25 19:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 03:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 03:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 03:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:12*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:12*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 62

Lab Sample ID: 890-8177-4
Matrix: Solid
Date Collected: 05/16/25 10:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	269		10.0		mg/Kg			05/20/25 14:31	1

Client Sample ID: CS 63

Lab Sample ID: 890-8177-5
Matrix: Solid
Date Collected: 05/16/25 10:40
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:22*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 19:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/22/25 03:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 03:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 03:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:28*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		10.1		mg/Kg			05/20/25 14:38	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 137

Lab Sample ID: 890-8177-6
Matrix: Solid
Date Collected: 05/16/25 10:02
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/20/25 09:01	05/20/25 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:43*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/20/25 19:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 03:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 03:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 03:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:44*	*1*
o-Terphenyl	*101*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**237**		10.0		mg/Kg			05/20/25 14:45	1

Client Sample ID: CS 151

Lab Sample ID: 890-8177-7
Matrix: Solid
Date Collected: 05/16/25 09:31
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:03*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 151

Lab Sample ID: 890-8177-7
Matrix: Solid
Date Collected: 05/16/25 09:31
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:03*	*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			05/20/25 20:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/22/25 04:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/20/25 07:59	05/22/25 04:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/20/25 07:59	05/22/25 04:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/20/25 07:59	05/22/25 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*109*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:01*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**699**		10.1	mg/Kg			05/20/25 14:52	1

Client Sample ID: CS 86

Lab Sample ID: 890-8177-8
Matrix: Solid
Date Collected: 05/16/25 11:51
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 09:01	05/20/25 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:24*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:24*	*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			05/20/25 20:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/22/25 04:16	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 86

Lab Sample ID: 890-8177-8
Matrix: Solid
Date Collected: 05/16/25 11:51
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 04:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:16*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**121**		10.1		mg/Kg			05/20/25 10:42	1

Client Sample ID: CS 87

Lab Sample ID: 890-8177-9
Matrix: Solid
Date Collected: 05/16/25 11:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:44*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 20:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 04:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 04:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 04:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:33*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:33*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 87

Lab Sample ID: 890-8177-9
Matrix: Solid
Date Collected: 05/16/25 11:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	481		9.96		mg/Kg			05/20/25 10:50	1

Client Sample ID: CS 97

Lab Sample ID: 890-8177-10
Matrix: Solid
Date Collected: 05/16/25 11:39
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 09:01	05/20/25 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 21:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/20/25 09:01*	*05/20/25 21:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 21:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 04:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 04:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 04:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:48*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.8		9.92		mg/Kg			05/20/25 10:57	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8176-A-1-C MS	Matrix Spike	94	104
890-8176-A-1-D MSD	Matrix Spike Duplicate	97	100
890-8177-1	CS 20	100	92
890-8177-2	CS 34	87	108
890-8177-3	CS 60	86	106
890-8177-4	CS 62	91	105
890-8177-5	CS 63	91	99
890-8177-6	CS 137	90	100
890-8177-7	CS 151	91	105
890-8177-8	CS 86	99	100
890-8177-9	CS 87	88	99
890-8177-10	CS 97	91	97
LCS 880-110498/1-A	Lab Control Sample	94	105
LCSD 880-110498/2-A	Lab Control Sample Dup	100	102
MB 880-110498/5-A	Method Blank	99	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8175-A-2-C MS	Matrix Spike	57 S1-	66 S1-
890-8175-A-2-D MSD	Matrix Spike Duplicate	95	87
890-8177-1	CS 20	90	90
890-8177-2	CS 34	106	98
890-8177-2 MS	CS 34	96	95
890-8177-2 MSD	CS 34	96	94
890-8177-3	CS 60	112	100
890-8177-4	CS 62	111	96
890-8177-5	CS 63	106	97
890-8177-6	CS 137	111	101
890-8177-7	CS 151	109	98
890-8177-8	CS 86	102	95
890-8177-9	CS 87	102	92
890-8177-10	CS 97	103	96
LCS 880-110482/2-A	Lab Control Sample	112	101
LCS 880-110483/2-A	Lab Control Sample	108	107
LCSD 880-110482/3-A	Lab Control Sample Dup	95	104
LCSD 880-110483/3-A	Lab Control Sample Dup	106	105
MB 880-110482/1-A	Method Blank	101	100
MB 880-110483/1-A	Method Blank	98	90

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110498/5-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110498

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 09:01	05/20/25 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:27*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:27*	*1*

Lab Sample ID: LCS 880-110498/1-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110498

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09429		mg/Kg		94	70 - 130		
Toluene			0.100	0.08841		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08548		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1753		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09063		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-110498/2-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110498

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09354		mg/Kg		94	70 - 130	1	35
Toluene			0.100	0.09459		mg/Kg		95	70 - 130	7	35
Ethylbenzene			0.100	0.09209		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1917		mg/Kg		96	70 - 130	9	35
o-Xylene			0.100	0.09882		mg/Kg		99	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-8176-A-1-C MS
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.07962		mg/Kg		80	70 - 130		
Toluene	<0.00200	U	0.100	0.07033		mg/Kg		70	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8176-A-1-C MS
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.100	0.06619	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1347	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.06868	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-8176-A-1-D MSD
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08585		mg/Kg		86	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.08228		mg/Kg		82	70 - 130	16	35
Ethylbenzene	<0.00200	U F1	0.100	0.07826		mg/Kg		78	70 - 130	17	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1604		mg/Kg		80	70 - 130	17	35
o-Xylene	<0.00200	U F1	0.100	0.08219		mg/Kg		82	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110482/1-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110482

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/20/25 07:47*	*05/21/25 15:49*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/20/25 07:47*	*05/21/25 15:49*	*1*

Lab Sample ID: LCS 880-110482/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110482

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1058		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1022		mg/Kg		102	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110482/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110482

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-110482/3-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110482

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1070		mg/Kg		107	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1111		mg/Kg		111	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-8175-A-2-C MS
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	477.1	F1	mg/Kg		48	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	996	583.7	F1	mg/Kg		59	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	57	S1-	70 - 130
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: 890-8175-A-2-D MSD
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	738.5	F2	mg/Kg		74	70 - 130	43	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	996	738.4	F2	mg/Kg		74	70 - 130	23	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-110483/1-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*

Lab Sample ID: LCS 880-110483/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1103		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-110483/3-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1077		mg/Kg		108	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1017		mg/Kg		102	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 890-8177-2 MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: CS 34
Prep Type: Total/NA
Prep Batch: 110483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	861.0		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	887.1		mg/Kg		89	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8177-2 MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: CS 34
Prep Type: Total/NA
Prep Batch: 110483

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 890-8177-2 MSD
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: CS 34
Prep Type: Total/NA
Prep Batch: 110483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	851.4		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	899.3		mg/Kg		90	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110451/1-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 10:00	1

Lab Sample ID: LCS 880-110451/2-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-110451/3-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-8173-A-1-E MS
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	107	F1	252	385.7	F1	mg/Kg		111	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8173-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110505

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	107	F1	252	392.4	F1	mg/Kg		114	90 - 110	2	20

Lab Sample ID: MB 880-110448/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 11:21	1

Lab Sample ID: LCS 880-110448/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.7		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110448/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8174-A-10-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	475		253	738.0		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8174-A-10-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	475		253	732.1		mg/Kg		102	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

GC VOA

Analysis Batch: 110490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	8021B	110498
890-8177-2	CS 34	Total/NA	Solid	8021B	110498
890-8177-3	CS 60	Total/NA	Solid	8021B	110498
890-8177-4	CS 62	Total/NA	Solid	8021B	110498
890-8177-5	CS 63	Total/NA	Solid	8021B	110498
890-8177-6	CS 137	Total/NA	Solid	8021B	110498
890-8177-7	CS 151	Total/NA	Solid	8021B	110498
890-8177-8	CS 86	Total/NA	Solid	8021B	110498
890-8177-9	CS 87	Total/NA	Solid	8021B	110498
890-8177-10	CS 97	Total/NA	Solid	8021B	110498
MB 880-110498/5-A	Method Blank	Total/NA	Solid	8021B	110498
LCS 880-110498/1-A	Lab Control Sample	Total/NA	Solid	8021B	110498
LCSD 880-110498/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110498
890-8176-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	110498
890-8176-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110498

Prep Batch: 110498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	5035	
890-8177-2	CS 34	Total/NA	Solid	5035	
890-8177-3	CS 60	Total/NA	Solid	5035	
890-8177-4	CS 62	Total/NA	Solid	5035	
890-8177-5	CS 63	Total/NA	Solid	5035	
890-8177-6	CS 137	Total/NA	Solid	5035	
890-8177-7	CS 151	Total/NA	Solid	5035	
890-8177-8	CS 86	Total/NA	Solid	5035	
890-8177-9	CS 87	Total/NA	Solid	5035	
890-8177-10	CS 97	Total/NA	Solid	5035	
MB 880-110498/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110498/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110498/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8176-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8176-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 110677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	Total BTEX	
890-8177-2	CS 34	Total/NA	Solid	Total BTEX	
890-8177-3	CS 60	Total/NA	Solid	Total BTEX	
890-8177-4	CS 62	Total/NA	Solid	Total BTEX	
890-8177-5	CS 63	Total/NA	Solid	Total BTEX	
890-8177-6	CS 137	Total/NA	Solid	Total BTEX	
890-8177-7	CS 151	Total/NA	Solid	Total BTEX	
890-8177-8	CS 86	Total/NA	Solid	Total BTEX	
890-8177-9	CS 87	Total/NA	Solid	Total BTEX	
890-8177-10	CS 97	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

GC Semi VOA

Prep Batch: 110482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	8015NM Prep	
MB 880-110482/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110482/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8175-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8175-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 110483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-2	CS 34	Total/NA	Solid	8015NM Prep	
890-8177-3	CS 60	Total/NA	Solid	8015NM Prep	
890-8177-4	CS 62	Total/NA	Solid	8015NM Prep	
890-8177-5	CS 63	Total/NA	Solid	8015NM Prep	
890-8177-6	CS 137	Total/NA	Solid	8015NM Prep	
890-8177-7	CS 151	Total/NA	Solid	8015NM Prep	
890-8177-8	CS 86	Total/NA	Solid	8015NM Prep	
890-8177-9	CS 87	Total/NA	Solid	8015NM Prep	
890-8177-10	CS 97	Total/NA	Solid	8015NM Prep	
MB 880-110483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8177-2 MS	CS 34	Total/NA	Solid	8015NM Prep	
890-8177-2 MSD	CS 34	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	8015B NM	110482
MB 880-110482/1-A	Method Blank	Total/NA	Solid	8015B NM	110482
LCS 880-110482/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110482
LCSD 880-110482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110482
890-8175-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110482
890-8175-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110482

Analysis Batch: 110687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-2	CS 34	Total/NA	Solid	8015B NM	110483
890-8177-3	CS 60	Total/NA	Solid	8015B NM	110483
890-8177-4	CS 62	Total/NA	Solid	8015B NM	110483
890-8177-5	CS 63	Total/NA	Solid	8015B NM	110483
890-8177-6	CS 137	Total/NA	Solid	8015B NM	110483
890-8177-7	CS 151	Total/NA	Solid	8015B NM	110483
890-8177-8	CS 86	Total/NA	Solid	8015B NM	110483
890-8177-9	CS 87	Total/NA	Solid	8015B NM	110483
890-8177-10	CS 97	Total/NA	Solid	8015B NM	110483
MB 880-110483/1-A	Method Blank	Total/NA	Solid	8015B NM	110483
LCS 880-110483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110483
LCSD 880-110483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110483
890-8177-2 MS	CS 34	Total/NA	Solid	8015B NM	110483
890-8177-2 MSD	CS 34	Total/NA	Solid	8015B NM	110483

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

GC Semi VOA

Analysis Batch: 110726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	8015 NM	
890-8177-2	CS 34	Total/NA	Solid	8015 NM	
890-8177-3	CS 60	Total/NA	Solid	8015 NM	
890-8177-4	CS 62	Total/NA	Solid	8015 NM	
890-8177-5	CS 63	Total/NA	Solid	8015 NM	
890-8177-6	CS 137	Total/NA	Solid	8015 NM	
890-8177-7	CS 151	Total/NA	Solid	8015 NM	
890-8177-8	CS 86	Total/NA	Solid	8015 NM	
890-8177-9	CS 87	Total/NA	Solid	8015 NM	
890-8177-10	CS 97	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Soluble	Solid	DI Leach	
890-8177-2	CS 34	Soluble	Solid	DI Leach	
890-8177-3	CS 60	Soluble	Solid	DI Leach	
890-8177-4	CS 62	Soluble	Solid	DI Leach	
890-8177-5	CS 63	Soluble	Solid	DI Leach	
890-8177-6	CS 137	Soluble	Solid	DI Leach	
890-8177-7	CS 151	Soluble	Solid	DI Leach	
MB 880-110448/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8174-A-10-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8174-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 110451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-8	CS 86	Soluble	Solid	DI Leach	
890-8177-9	CS 87	Soluble	Solid	DI Leach	
890-8177-10	CS 97	Soluble	Solid	DI Leach	
MB 880-110451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8173-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8173-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 110505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-8	CS 86	Soluble	Solid	300.0	110451
890-8177-9	CS 87	Soluble	Solid	300.0	110451
890-8177-10	CS 97	Soluble	Solid	300.0	110451
MB 880-110451/1-A	Method Blank	Soluble	Solid	300.0	110451
LCS 880-110451/2-A	Lab Control Sample	Soluble	Solid	300.0	110451
LCSD 880-110451/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110451
890-8173-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	110451
890-8173-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110451

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

HPLC/IC

Analysis Batch: 110516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Soluble	Solid	300.0	110448
890-8177-2	CS 34	Soluble	Solid	300.0	110448
890-8177-3	CS 60	Soluble	Solid	300.0	110448
890-8177-4	CS 62	Soluble	Solid	300.0	110448
890-8177-5	CS 63	Soluble	Solid	300.0	110448
890-8177-6	CS 137	Soluble	Solid	300.0	110448
890-8177-7	CS 151	Soluble	Solid	300.0	110448
MB 880-110448/1-A	Method Blank	Soluble	Solid	300.0	110448
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	300.0	110448
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110448
890-8174-A-10-B MS	Matrix Spike	Soluble	Solid	300.0	110448
890-8174-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110448

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 20

Lab Sample ID: 890-8177-1
Matrix: Solid
Date Collected: 05/16/25 10:35
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 18:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 00:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 00:04	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:37	SMC	EET MID

Client Sample ID: CS 34

Lab Sample ID: 890-8177-2
Matrix: Solid
Date Collected: 05/16/25 10:37
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 18:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 02:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 02:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:44	SMC	EET MID

Client Sample ID: CS 60

Lab Sample ID: 890-8177-3
Matrix: Solid
Date Collected: 05/16/25 10:38
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 18:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 02:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 02:56	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:04	SMC	EET MID

Client Sample ID: CS 62

Lab Sample ID: 890-8177-4
Matrix: Solid
Date Collected: 05/16/25 10:45
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 19:02	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 62

Lab Sample ID: 890-8177-4

Date Collected: 05/16/25 10:45
Matrix: Solid
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110726	05/22/25 03:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 03:12	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:31	SMC	EET MID

Client Sample ID: CS 63

Lab Sample ID: 890-8177-5

Date Collected: 05/16/25 10:40
Matrix: Solid
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 03:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 03:28	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:38	SMC	EET MID

Client Sample ID: CS 137

Lab Sample ID: 890-8177-6

Date Collected: 05/16/25 10:02
Matrix: Solid
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 19:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 19:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 03:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 03:44	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:45	SMC	EET MID

Client Sample ID: CS 151

Lab Sample ID: 890-8177-7

Date Collected: 05/16/25 09:31
Matrix: Solid
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 20:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 04:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 04:01	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 151

Date Collected: 05/16/25 09:31
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8177-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:52	SMC	EET MID

Client Sample ID: CS 86

Date Collected: 05/16/25 11:51
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8177-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 20:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 20:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 04:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 04:16	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110451	05/19/25 14:02	SA	EET MID
Soluble	Analysis	300.0		1			110505	05/20/25 10:42	SMC	EET MID

Client Sample ID: CS 87

Date Collected: 05/16/25 11:45
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8177-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 20:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 04:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 04:33	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110451	05/19/25 14:02	SA	EET MID
Soluble	Analysis	300.0		1			110505	05/20/25 10:50	SMC	EET MID

Client Sample ID: CS 97

Date Collected: 05/16/25 11:39
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8177-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 21:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 21:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 04:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 04:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110451	05/19/25 14:02	SA	EET MID
Soluble	Analysis	300.0		1			110505	05/20/25 10:57	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8177-1	CS 20	Solid	05/16/25 10:35	05/16/25 15:57	1
890-8177-2	CS 34	Solid	05/16/25 10:37	05/16/25 15:57	1
890-8177-3	CS 60	Solid	05/16/25 10:38	05/16/25 15:57	1
890-8177-4	CS 62	Solid	05/16/25 10:45	05/16/25 15:57	1
890-8177-5	CS 63	Solid	05/16/25 10:40	05/16/25 15:57	1
890-8177-6	CS 137	Solid	05/16/25 10:02	05/16/25 15:57	2
890-8177-7	CS 151	Solid	05/16/25 09:31	05/16/25 15:57	3
890-8177-8	CS 86	Solid	05/16/25 11:51	05/16/25 15:57	1
890-8177-9	CS 87	Solid	05/16/25 11:45	05/16/25 15:57	1
890-8177-10	CS 97	Solid	05/16/25 11:39	05/16/25 15:57	2

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5/22/2025

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-8177 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☒ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TWnoo
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	TPH 8015	Chloride 300	Sample Comments
CS20	S	05-16-25	1035	1	C	1		✓	✓	✓	
CS34			1037					✓	✓	✓	
CS60			1038					✓	✓	✓	
CS62			1045					✓	✓	✓	
CS63			1040	↓				✓	✓	✓	
CS137			1002	2				✓	✓	✓	
CS151			0931	3				✓	✓	✓	
CS86			1151	1				✓	✓	✓	
CS87			1145	1				✓	✓	✓	
CS97	↓	↓	1139	2	↓	↓		✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Trevor Wargo		5/16 1557	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5153.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8177-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Flatland FNR Frac line	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 20 (890-8177-1)	5/16/25	10:35 Mountain	G	Solid			X	X	X	X	X	1	
CS 34 (890-8177-2)	5/16/25	10:37 Mountain	G	Solid			X	X	X	X	X	1	
CS 60 (890-8177-3)	5/16/25	10:38 Mountain	G	Solid			X	X	X	X	X	1	
CS 62 (890-8177-4)	5/16/25	10:45 Mountain	G	Solid			X	X	X	X	X	1	
CS 63 (890-8177-5)	5/16/25	10:40 Mountain	G	Solid			X	X	X	X	X	1	
CS 137 (890-8177-6)	5/16/25	10:02 Mountain	G	Solid			X	X	X	X	X	1	
CS 151 (890-8177-7)	5/16/25	09:31 Mountain	G	Solid			X	X	X	X	X	1	
CS 86 (890-8177-8)	5/16/25	11:51 Mountain	G	Solid			X	X	X	X	X	1	
CS 87 (890-8177-9)	5/16/25	11:45 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 5/19 1630	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by: Teddy Randolph	Date/Time: 5/20/25 0800	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

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5/22/2025
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Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5153.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8177-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Flatland FNR Frac line	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 97 (890-8177-10)	5/16/25	11:39 Mountain	G	Solid			X	X	X	X	X	1	

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/19 1630				
2	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 5/20/25 0800	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8177-1
SDG Number: 03d3836001

Login Number: 8177
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8177-1
SDG Number: 03d3836001

Login Number: 8177
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:43:02 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8178-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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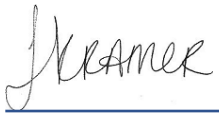
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:43:02 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8178-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8178-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1 Eurofins Carlsbad

Job Narrative
890-8178-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 151 (890-8178-1), CS 152 (890-8178-2), CS 153 (890-8178-3), CS 177 (890-8178-4), CS 158 (890-8178-5), CS 61 (890-8178-6), CS 42 (890-8178-7), CS 41 (890-8178-8), CS 37 (890-8178-9), CS 38 (890-8178-10) and CS 168 (890-8178-11).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110499 and analytical batch 880-110543 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 151

Date Collected: 05/14/25 09:28
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8178-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1 F2	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
Toluene	<0.00200	U F1 F2	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
Ethylbenzene	<0.00200	U F1 F2	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.00399		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
o-Xylene	<0.00200	U F1 F2	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
Xylenes, Total	<0.00399	U F1 F2	0.00399		mg/Kg		05/20/25 09:03	05/20/25 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:03*	*05/20/25 17:48*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*05/20/25 09:03*	*05/20/25 17:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 17:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 05:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 05:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 05:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:05*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.5**		9.98		mg/Kg			05/20/25 16:01	1

Client Sample ID: CS 152

Date Collected: 05/14/25 09:30
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8178-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:03	05/20/25 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 152

Lab Sample ID: 890-8178-2
Matrix: Solid
Date Collected: 05/14/25 09:30
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 18:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			05/22/25 05:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		05/20/25 07:59	05/22/25 05:36	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		05/20/25 07:59	05/22/25 05:36	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		05/20/25 07:59	05/22/25 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:36*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**233**		10.0	mg/Kg			05/20/25 16:08	1

Client Sample ID: CS 153

Lab Sample ID: 890-8178-3
Matrix: Solid
Date Collected: 05/14/25 09:32
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 09:03	05/20/25 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:29*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:29*	*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			05/20/25 18:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/22/25 05:52	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 153

Lab Sample ID: 890-8178-3
Matrix: Solid
Date Collected: 05/14/25 09:32
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 05:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 05:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:52*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**283**		10.0		mg/Kg			05/20/25 16:29	1

Client Sample ID: CS 177

Lab Sample ID: 890-8178-4
Matrix: Solid
Date Collected: 05/14/25 09:01
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 09:03	05/20/25 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:49*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 18:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/22/25 06:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 06:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 06:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:08*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 177

Lab Sample ID: 890-8178-4
Matrix: Solid
Date Collected: 05/14/25 09:01
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	454		10.0		mg/Kg			05/20/25 16:36	1

Client Sample ID: CS 158

Lab Sample ID: 890-8178-5
Matrix: Solid
Date Collected: 05/14/25 10:35
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:03	05/20/25 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/20/25 09:03*	*05/20/25 19:10*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:03*	*05/20/25 19:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/20/25 19:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 06:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 06:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 06:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:25*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	515		9.94		mg/Kg			05/20/25 16:58	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 61

Lab Sample ID: 890-8178-6
Matrix: Solid
Date Collected: 05/14/25 11:13
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
Ethylbenzene	**0.00243**		0.00199		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 09:03	05/20/25 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/20/25 22:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 06:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 06:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 06:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:40*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		9.92		mg/Kg			05/20/25 17:05	1

Client Sample ID: CS 42

Lab Sample ID: 890-8178-7
Matrix: Solid
Date Collected: 05/14/25 11:35
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/20/25 09:03	05/20/25 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:37*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 42

Lab Sample ID: 890-8178-7
Matrix: Solid
Date Collected: 05/14/25 11:35
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/20/25 22:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/22/25 06:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/20/25 07:59	05/22/25 06:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/20/25 07:59	05/22/25 06:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/20/25 07:59	05/22/25 06:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:57*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**162**		10.1	mg/Kg			05/20/25 17:12	1

Client Sample ID: CS 41

Lab Sample ID: 890-8178-8
Matrix: Solid
Date Collected: 05/14/25 12:51
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
o-Xylene	**0.00345**		0.00200	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/20/25 09:03	05/20/25 22:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:58*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/20/25 22:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/22/25 07:13	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 41

Lab Sample ID: 890-8178-8
Matrix: Solid
Date Collected: 05/14/25 12:51
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 07:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 07:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:13*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		9.98		mg/Kg			05/20/25 17:19	1

Client Sample ID: CS 37

Lab Sample ID: 890-8178-9
Matrix: Solid
Date Collected: 05/14/25 13:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 09:03	05/20/25 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:18*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 23:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 07:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 07:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 07:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:30*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:30*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 37

Lab Sample ID: 890-8178-9
Matrix: Solid
Date Collected: 05/14/25 13:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	254		9.92		mg/Kg			05/20/25 17:26	1

Client Sample ID: CS 38

Lab Sample ID: 890-8178-10
Matrix: Solid
Date Collected: 05/14/25 13:43
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 09:03	05/20/25 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:39*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 23:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/22/25 07:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 07:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 07:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:45*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		10.1		mg/Kg			05/20/25 17:33	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 168

Date Collected: 05/14/25 13:31
Date Received: 05/16/25 15:57
Sample Depth: 1

Lab Sample ID: 890-8178-11

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 09:03	05/20/25 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:59*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 23:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 08:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 08:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 08:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 08:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/20/25 07:59*	*05/22/25 08:01*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/20/25 07:59*	*05/22/25 08:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**740**		9.96		mg/Kg			05/20/25 17:40	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-8178-1	CS 151	91	75										
890-8178-1 MS	CS 151	98	107										
890-8178-1 MSD	CS 151	102	99										
890-8178-2	CS 152	93	98										
890-8178-3	CS 153	94	101										
890-8178-4	CS 177	91	100										
890-8178-5	CS 158	96	101										
890-8178-6	CS 61	89	95										
890-8178-7	CS 42	88	97										
890-8178-8	CS 41	84	95										
890-8178-9	CS 37	89	76										
890-8178-10	CS 38	88	99										
890-8178-11	CS 168	88	96										
LCS 880-110499/1-A	Lab Control Sample	103	110										
LCSD 880-110499/2-A	Lab Control Sample Dup	110	101										
MB 880-110499/5-A	Method Blank	86	95										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-8177-A-2-C MS	Matrix Spike	96	95										
890-8177-A-2-D MSD	Matrix Spike Duplicate	96	94										
890-8178-1	CS 151	101	92										
890-8178-2	CS 152	105	94										
890-8178-3	CS 153	108	96										
890-8178-4	CS 177	108	99										
890-8178-5	CS 158	107	94										
890-8178-6	CS 61	109	99										
890-8178-7	CS 42	105	95										
890-8178-8	CS 41	106	96										
890-8178-9	CS 37	105	96										
890-8178-10	CS 38	103	95										
890-8178-11	CS 168	103	93										
LCS 880-110483/2-A	Lab Control Sample	108	107										
LCSD 880-110483/3-A	Lab Control Sample Dup	106	105										
MB 880-110483/1-A	Method Blank	98	90										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110499/5-A
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110499

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 09:03	05/20/25 17:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/20/25 09:03*	*05/20/25 17:26*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/20/25 09:03*	*05/20/25 17:26*	*1*

Lab Sample ID: LCS 880-110499/1-A
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110499

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1095		mg/Kg		109	70 - 130		
Toluene			0.100	0.09614		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.1226		mg/Kg		123	70 - 130		
m-Xylene & p-Xylene			0.200	0.2287		mg/Kg		114	70 - 130		
o-Xylene			0.100	0.1147		mg/Kg		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-110499/2-A
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110499

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1089		mg/Kg		109	70 - 130	1	35
Toluene			0.100	0.1072		mg/Kg		107	70 - 130	11	35
Ethylbenzene			0.100	0.1245		mg/Kg		125	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2317		mg/Kg		116	70 - 130	1	35
o-Xylene			0.100	0.1160		mg/Kg		116	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-8178-1 MS
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: CS 151
Prep Type: Total/NA
Prep Batch: 110499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1 F2	0.100	0.05475	F1	mg/Kg		55	70 - 130		
Toluene	<0.00200	U F1 F2	0.100	0.04949	F1	mg/Kg		49	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8178-1 MS
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: CS 151
Prep Type: Total/NA
Prep Batch: 110499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1 F2	0.100	0.05134	F1	mg/Kg		51	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.09951	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00200	U F1 F2	0.100	0.05097	F1	mg/Kg		51	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-8178-1 MSD
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: CS 151
Prep Type: Total/NA
Prep Batch: 110499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.07968	F2	mg/Kg		80	70 - 130	37	35
Toluene	<0.00200	U F1 F2	0.100	0.07790	F2	mg/Kg		78	70 - 130	45	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.08442	F2	mg/Kg		84	70 - 130	49	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.1573	F2	mg/Kg		79	70 - 130	45	35
o-Xylene	<0.00200	U F1 F2	0.100	0.07796	F2	mg/Kg		78	70 - 130	42	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110483/1-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*

Lab Sample ID: LCS 880-110483/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1103		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		104	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110483/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110483

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-110483/3-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1077		mg/Kg		108	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1017		mg/Kg		102	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-8177-A-2-C MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	861.0		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	887.1		mg/Kg		89	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-8177-A-2-D MSD
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	851.4		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	899.3		mg/Kg		90	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110436/1-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 14:08	1

Lab Sample ID: LCS 880-110436/2-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110436/3-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8178-2 MS
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: CS 152
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	233		250	486.9		mg/Kg		101	90 - 110		

Lab Sample ID: 890-8178-2 MSD
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: CS 152
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	233		250	488.6		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

GC VOA

Prep Batch: 110499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	5035	
890-8178-2	CS 152	Total/NA	Solid	5035	
890-8178-3	CS 153	Total/NA	Solid	5035	
890-8178-4	CS 177	Total/NA	Solid	5035	
890-8178-5	CS 158	Total/NA	Solid	5035	
890-8178-6	CS 61	Total/NA	Solid	5035	
890-8178-7	CS 42	Total/NA	Solid	5035	
890-8178-8	CS 41	Total/NA	Solid	5035	
890-8178-9	CS 37	Total/NA	Solid	5035	
890-8178-10	CS 38	Total/NA	Solid	5035	
890-8178-11	CS 168	Total/NA	Solid	5035	
MB 880-110499/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110499/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110499/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8178-1 MS	CS 151	Total/NA	Solid	5035	
890-8178-1 MSD	CS 151	Total/NA	Solid	5035	

Analysis Batch: 110543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	8021B	110499
890-8178-2	CS 152	Total/NA	Solid	8021B	110499
890-8178-3	CS 153	Total/NA	Solid	8021B	110499
890-8178-4	CS 177	Total/NA	Solid	8021B	110499
890-8178-5	CS 158	Total/NA	Solid	8021B	110499
890-8178-6	CS 61	Total/NA	Solid	8021B	110499
890-8178-7	CS 42	Total/NA	Solid	8021B	110499
890-8178-8	CS 41	Total/NA	Solid	8021B	110499
890-8178-9	CS 37	Total/NA	Solid	8021B	110499
890-8178-10	CS 38	Total/NA	Solid	8021B	110499
890-8178-11	CS 168	Total/NA	Solid	8021B	110499
MB 880-110499/5-A	Method Blank	Total/NA	Solid	8021B	110499
LCS 880-110499/1-A	Lab Control Sample	Total/NA	Solid	8021B	110499
LCSD 880-110499/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110499
890-8178-1 MS	CS 151	Total/NA	Solid	8021B	110499
890-8178-1 MSD	CS 151	Total/NA	Solid	8021B	110499

Analysis Batch: 110622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	Total BTEX	
890-8178-2	CS 152	Total/NA	Solid	Total BTEX	
890-8178-3	CS 153	Total/NA	Solid	Total BTEX	
890-8178-4	CS 177	Total/NA	Solid	Total BTEX	
890-8178-5	CS 158	Total/NA	Solid	Total BTEX	
890-8178-6	CS 61	Total/NA	Solid	Total BTEX	
890-8178-7	CS 42	Total/NA	Solid	Total BTEX	
890-8178-8	CS 41	Total/NA	Solid	Total BTEX	
890-8178-9	CS 37	Total/NA	Solid	Total BTEX	
890-8178-10	CS 38	Total/NA	Solid	Total BTEX	
890-8178-11	CS 168	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

GC Semi VOA

Prep Batch: 110483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	8015NM Prep	
890-8178-2	CS 152	Total/NA	Solid	8015NM Prep	
890-8178-3	CS 153	Total/NA	Solid	8015NM Prep	
890-8178-4	CS 177	Total/NA	Solid	8015NM Prep	
890-8178-5	CS 158	Total/NA	Solid	8015NM Prep	
890-8178-6	CS 61	Total/NA	Solid	8015NM Prep	
890-8178-7	CS 42	Total/NA	Solid	8015NM Prep	
890-8178-8	CS 41	Total/NA	Solid	8015NM Prep	
890-8178-9	CS 37	Total/NA	Solid	8015NM Prep	
890-8178-10	CS 38	Total/NA	Solid	8015NM Prep	
890-8178-11	CS 168	Total/NA	Solid	8015NM Prep	
MB 880-110483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8177-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8177-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	8015B NM	110483
890-8178-2	CS 152	Total/NA	Solid	8015B NM	110483
890-8178-3	CS 153	Total/NA	Solid	8015B NM	110483
890-8178-4	CS 177	Total/NA	Solid	8015B NM	110483
890-8178-5	CS 158	Total/NA	Solid	8015B NM	110483
890-8178-6	CS 61	Total/NA	Solid	8015B NM	110483
890-8178-7	CS 42	Total/NA	Solid	8015B NM	110483
890-8178-8	CS 41	Total/NA	Solid	8015B NM	110483
890-8178-9	CS 37	Total/NA	Solid	8015B NM	110483
890-8178-10	CS 38	Total/NA	Solid	8015B NM	110483
890-8178-11	CS 168	Total/NA	Solid	8015B NM	110483
MB 880-110483/1-A	Method Blank	Total/NA	Solid	8015B NM	110483
LCS 880-110483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110483
LCSD 880-110483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110483
890-8177-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110483
890-8177-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110483

Analysis Batch: 110727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	8015 NM	
890-8178-2	CS 152	Total/NA	Solid	8015 NM	
890-8178-3	CS 153	Total/NA	Solid	8015 NM	
890-8178-4	CS 177	Total/NA	Solid	8015 NM	
890-8178-5	CS 158	Total/NA	Solid	8015 NM	
890-8178-6	CS 61	Total/NA	Solid	8015 NM	
890-8178-7	CS 42	Total/NA	Solid	8015 NM	
890-8178-8	CS 41	Total/NA	Solid	8015 NM	
890-8178-9	CS 37	Total/NA	Solid	8015 NM	
890-8178-10	CS 38	Total/NA	Solid	8015 NM	
890-8178-11	CS 168	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

HPLC/IC

Leach Batch: 110436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Soluble	Solid	DI Leach	
890-8178-2	CS 152	Soluble	Solid	DI Leach	
890-8178-3	CS 153	Soluble	Solid	DI Leach	
890-8178-4	CS 177	Soluble	Solid	DI Leach	
890-8178-5	CS 158	Soluble	Solid	DI Leach	
890-8178-6	CS 61	Soluble	Solid	DI Leach	
890-8178-7	CS 42	Soluble	Solid	DI Leach	
890-8178-8	CS 41	Soluble	Solid	DI Leach	
890-8178-9	CS 37	Soluble	Solid	DI Leach	
890-8178-10	CS 38	Soluble	Solid	DI Leach	
890-8178-11	CS 168	Soluble	Solid	DI Leach	
MB 880-110436/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110436/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110436/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8178-2 MS	CS 152	Soluble	Solid	DI Leach	
890-8178-2 MSD	CS 152	Soluble	Solid	DI Leach	

Analysis Batch: 110526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Soluble	Solid	300.0	110436
890-8178-2	CS 152	Soluble	Solid	300.0	110436
890-8178-3	CS 153	Soluble	Solid	300.0	110436
890-8178-4	CS 177	Soluble	Solid	300.0	110436
890-8178-5	CS 158	Soluble	Solid	300.0	110436
890-8178-6	CS 61	Soluble	Solid	300.0	110436
890-8178-7	CS 42	Soluble	Solid	300.0	110436
890-8178-8	CS 41	Soluble	Solid	300.0	110436
890-8178-9	CS 37	Soluble	Solid	300.0	110436
890-8178-10	CS 38	Soluble	Solid	300.0	110436
890-8178-11	CS 168	Soluble	Solid	300.0	110436
MB 880-110436/1-A	Method Blank	Soluble	Solid	300.0	110436
LCS 880-110436/2-A	Lab Control Sample	Soluble	Solid	300.0	110436
LCSD 880-110436/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110436
890-8178-2 MS	CS 152	Soluble	Solid	300.0	110436
890-8178-2 MSD	CS 152	Soluble	Solid	300.0	110436

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 151

Date Collected: 05/14/25 09:28
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 05:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 05:05	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:01	SMC	EET MID

Client Sample ID: CS 152

Date Collected: 05/14/25 09:30
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 18:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 05:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 05:36	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:08	SMC	EET MID

Client Sample ID: CS 153

Date Collected: 05/14/25 09:32
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 18:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 05:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 05:52	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:29	SMC	EET MID

Client Sample ID: CS 177

Date Collected: 05/14/25 09:01
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 18:49	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 177
Date Collected: 05/14/25 09:01
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110727	05/22/25 06:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 06:08	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:36	SMC	EET MID

Client Sample ID: CS 158
Date Collected: 05/14/25 10:35
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 19:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 06:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 06:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:58	SMC	EET MID

Client Sample ID: CS 61
Date Collected: 05/14/25 11:13
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 22:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 22:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 06:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 06:40	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:05	SMC	EET MID

Client Sample ID: CS 42
Date Collected: 05/14/25 11:35
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 22:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 22:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 06:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 06:57	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 42

Date Collected: 05/14/25 11:35
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:12	SMC	EET MID

Client Sample ID: CS 41

Date Collected: 05/14/25 12:51
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 22:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 22:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 07:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 07:13	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:19	SMC	EET MID

Client Sample ID: CS 37

Date Collected: 05/14/25 13:45
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 23:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 23:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 07:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 07:30	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:26	SMC	EET MID

Client Sample ID: CS 38

Date Collected: 05/14/25 13:43
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 23:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 23:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 07:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 07:45	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:33	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 168

Date Collected: 05/14/25 13:31
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 23:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 23:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 08:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 08:01	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:40	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8178-1	CS 151	Solid	05/14/25 09:28	05/16/25 15:57	2
890-8178-2	CS 152	Solid	05/14/25 09:30	05/16/25 15:57	2
890-8178-3	CS 153	Solid	05/14/25 09:32	05/16/25 15:57	2
890-8178-4	CS 177	Solid	05/14/25 09:01	05/16/25 15:57	2
890-8178-5	CS 158	Solid	05/14/25 10:35	05/16/25 15:57	2
890-8178-6	CS 61	Solid	05/14/25 11:13	05/16/25 15:57	1
890-8178-7	CS 42	Solid	05/14/25 11:35	05/16/25 15:57	1
890-8178-8	CS 41	Solid	05/14/25 12:51	05/16/25 15:57	1
890-8178-9	CS 37	Solid	05/14/25 13:45	05/16/25 15:57	1
890-8178-10	CS 38	Solid	05/14/25 13:43	05/16/25 15:57	2
890-8178-11	CS 168	Solid	05/14/25 13:31	05/16/25 15:57	1

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eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Kaoru Shimada	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Thermco
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

890-8178 Chain of Custody

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (300)	TPH (8015M)	BTEX (8021)	RCI	Paint Filter Test	TCLP	VOC	SVOC	Sample Comments
CS151	Soil	5-14-25	928	2	C	1	Cool	X	X	X						Incident ID:
CS152			930	2				X	X	X						
CS153			932	2				X	X	X						
CS177			901	2				X	X	X						Cost Center:
CS158			1035	2				X	X	X						
~~CS166~~			~~935~~	~~2~~				~~X~~	~~X~~	~~X~~	~~X~~					AFE:
CS61			1113	1				X	X	X						
CS42			1135	1				X	X	X						
CS41			1251	1				X	X	X						
CS37			1345	1	C	1		X	X	X						

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Dana Wagner		5/16 1557	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

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5/22/2025

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

www.xenco.com Page 2 of 2

Work Order No: _____

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	32.30486, -103.89709	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Kaoru Shimada		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	Thmcc	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

Preservative Codes

None: NO; DI Water: H_2O; ~~Cool: Cool~~; ~~MeOH: Me~~; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	ANALYSIS REQUEST: CHLORIDES (300)	TPH (8015M)	BTEX (8021)	RCI	Paint Filter Test	TCLP	VOC	SVOC
								Parameters							
CS38	soil	1	1343	1	C	1	Cool	X	X	X					
CS168	soil	2	1331	2	C	1	Cool	X	X	X					

Sample Comments

Incident ID:

Cost Center:

AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Deven Green		5/16 1555	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5154.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8178-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 151 (890-8178-1)	5/14/25	09:28 Mountain	G	Solid			X	X	X	X	X	1	
CS 152 (890-8178-2)	5/14/25	09:30 Mountain	G	Solid			X	X	X	X	X	1	
CS 153 (890-8178-3)	5/14/25	09:32 Mountain	G	Solid			X	X	X	X	X	1	
CS 177 (890-8178-4)	5/14/25	09:01 Mountain	G	Solid			X	X	X	X	X	1	
CS 158 (890-8178-5)	5/14/25	10:35 Mountain	G	Solid			X	X	X	X	X	1	
CS 61 (890-8178-6)	5/14/25	11:13 Mountain	G	Solid			X	X	X	X	X	1	
CS 42 (890-8178-7)	5/14/25	11:35 Mountain	G	Solid			X	X	X	X	X	1	
CS 41 (890-8178-8)	5/14/25	12:51 Mountain	G	Solid			X	X	X	X	X	1	
CS 37 (890-8178-9)	5/14/25	13:45 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time: 5/19 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Teddy Randall Lee	Date/Time: 5/20/25 0800	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM
Released to Imaging: 8/4/2025 3:28:31 PM
5/22/2025
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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5154.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8178-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 38 (890-8178-10)	5/14/25	13:43 Mountain	G	Solid			X	X	X	X	X	1	
CS 168 (890-8178-11)	5/14/25	13:31 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/19 1630				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 5/20/25 0800	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8178-1
SDG Number: 03D3836001

Login Number: 8178
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8178-1
SDG Number: 03D3836001

Login Number: 8178
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:43:09 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8179-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

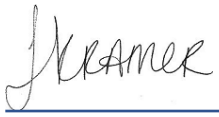
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:43:09 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8179-1
SDG: 03D3836001

Table of Contents

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QC Sample Results 15
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Method Summary 28
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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8179-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1 Eurofins Carlsbad

Job Narrative
890-8179-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 165 (890-8179-1), CS 164 (890-8179-2), CS 18 (890-8179-3), CS 166 (890-8179-4), CS 17 (890-8179-5), CS 176 (890-8179-6), CS 169 (890-8179-7), CS 159 (890-8179-8), CS 172 (890-8179-9) and CS 177 (890-8179-10).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 165

Date Collected: 05/15/25 10:52
Date Received: 05/16/25 15:57
Sample Depth: 3

Lab Sample ID: 890-8179-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 08:38	05/20/25 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:38*	*05/20/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/20/25 08:38*	*05/20/25 11:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 11:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 02:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 02:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 02:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/20/25 08:01*	*05/22/25 02:10*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/20/25 08:01*	*05/22/25 02:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**237**		9.96		mg/Kg			05/20/25 20:44	1

Client Sample ID: CS 164

Date Collected: 05/15/25 10:56
Date Received: 05/16/25 15:57
Sample Depth: 3

Lab Sample ID: 890-8179-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 08:38	05/20/25 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 164

Lab Sample ID: 890-8179-2
Matrix: Solid
Date Collected: 05/15/25 10:56
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 12:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/22/25 02:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/20/25 08:01	05/22/25 02:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/20/25 08:01	05/22/25 02:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/20/25 08:01	05/22/25 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/20/25 08:01*	*05/22/25 02:56*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/20/25 08:01*	*05/22/25 02:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**364**		9.96	mg/Kg			05/20/25 21:05	1

Client Sample ID: CS 18

Lab Sample ID: 890-8179-3
Matrix: Solid
Date Collected: 05/15/25 09:30
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 08:38	05/20/25 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:30*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:30*	*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			05/20/25 12:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/22/25 03:12	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 18

Lab Sample ID: 890-8179-3
Matrix: Solid
Date Collected: 05/15/25 09:30
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 03:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 03:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:12*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**141**		10.0		mg/Kg			05/20/25 21:12	1

Client Sample ID: CS 166

Lab Sample ID: 890-8179-4
Matrix: Solid
Date Collected: 05/15/25 10:48
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 08:38	05/20/25 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:51*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 03:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 03:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 03:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:28*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:28*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 166

Lab Sample ID: 890-8179-4
Matrix: Solid
Date Collected: 05/15/25 10:48
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	247		10.0		mg/Kg			05/20/25 21:19	1

Client Sample ID: CS 17

Lab Sample ID: 890-8179-5
Matrix: Solid
Date Collected: 05/15/25 09:22
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 08:38	05/20/25 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:11*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/20/25 13:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/22/25 03:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/20/25 08:01	05/22/25 03:44	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/20/25 08:01	05/22/25 03:44	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/20/25 08:01	05/22/25 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:44*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		10.1		mg/Kg			05/20/25 21:26	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 176

Lab Sample ID: 890-8179-6
Matrix: Solid
Date Collected: 05/15/25 09:53
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 08:38	05/20/25 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:32*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:32*	*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			05/20/25 13:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 04:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:01*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**295**		10.1		mg/Kg			05/20/25 21:33	1

Client Sample ID: CS 169

Lab Sample ID: 890-8179-7
Matrix: Solid
Date Collected: 05/15/25 10:33
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/20/25 08:38	05/20/25 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:52*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 169

Lab Sample ID: 890-8179-7
Matrix: Solid
Date Collected: 05/15/25 10:33
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/20/25 13:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/22/25 04:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		05/20/25 08:01	05/22/25 04:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		05/20/25 08:01	05/22/25 04:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		05/20/25 08:01	05/22/25 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:16*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**279**		10.1	mg/Kg			05/20/25 21:41	1

Client Sample ID: CS 159

Lab Sample ID: 890-8179-8
Matrix: Solid
Date Collected: 05/15/25 11:19
Date Received: 05/16/25 15:57
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		05/20/25 08:38	05/20/25 14:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/20/25 08:38	05/20/25 14:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/20/25 08:38	05/20/25 14:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/20/25 08:38	05/20/25 14:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/20/25 08:38	05/20/25 14:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/20/25 08:38	05/20/25 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:13*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/20/25 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/22/25 04:33	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 159

Date Collected: 05/15/25 11:19
Date Received: 05/16/25 15:57
Sample Depth: 3

Lab Sample ID: 890-8179-8
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:33*	*1*
o-Terphenyl	*87*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**298**		9.94		mg/Kg			05/20/25 21:48	1

Client Sample ID: CS 172

Date Collected: 05/15/25 10:44
Date Received: 05/16/25 15:57
Sample Depth: 3

Lab Sample ID: 890-8179-9
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 08:38	05/20/25 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:33*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 14:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 04:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 04:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 04:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:48*	*1*
o-Terphenyl	*83*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:48*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 172

Lab Sample ID: 890-8179-9
Matrix: Solid
Date Collected: 05/15/25 10:44
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		10.0		mg/Kg			05/20/25 14:59	1

Client Sample ID: CS 177

Lab Sample ID: 890-8179-10
Matrix: Solid
Date Collected: 05/15/25 09:49
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 08:38	05/20/25 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:54*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 14:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 05:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 05:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 05:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/20/25 08:01*	*05/22/25 05:05*	*1*
o-Terphenyl	*87*		*70 - 130*	*05/20/25 08:01*	*05/22/25 05:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		9.94		mg/Kg			05/20/25 15:05	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8179-1	CS 165	104	83
890-8179-1 MS	CS 165	106	100
890-8179-1 MSD	CS 165	99	96
890-8179-2	CS 164	115	81
890-8179-3	CS 18	115	85
890-8179-4	CS 166	113	88
890-8179-5	CS 17	107	85
890-8179-6	CS 176	104	85
890-8179-7	CS 169	104	82
890-8179-8	CS 159	116	83
890-8179-9	CS 172	112	81
890-8179-10	CS 177	112	81
LCS 880-110494/1-A	Lab Control Sample	102	100
LCSD 880-110494/2-A	Lab Control Sample Dup	108	102
MB 880-110494/5-A	Method Blank	103	78

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8179-1	CS 165	93	91
890-8179-1 MS	CS 165	80	85
890-8179-1 MSD	CS 165	95	86
890-8179-2	CS 164	93	91
890-8179-3	CS 18	92	92
890-8179-4	CS 166	89	88
890-8179-5	CS 17	99	97
890-8179-6	CS 176	90	89
890-8179-7	CS 169	91	88
890-8179-8	CS 159	88	87
890-8179-9	CS 172	85	83
890-8179-10	CS 177	89	87
LCS 880-110484/2-A	Lab Control Sample	85	92
LCSD 880-110484/3-A	Lab Control Sample Dup	83	90
MB 880-110484/1-A	Method Blank	75	75

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110494/5-A
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110494

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 08:38	05/20/25 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/20/25 08:38*	*05/20/25 11:27*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/20/25 08:38*	*05/20/25 11:27*	*1*

Lab Sample ID: LCS 880-110494/1-A
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09064		mg/Kg		91	70 - 130		
Toluene			0.100	0.09176		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09319		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1908		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09530		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-110494/2-A
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110494

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09790		mg/Kg		98	70 - 130	8	35
Toluene			0.100	0.1018		mg/Kg		102	70 - 130	10	35
Ethylbenzene			0.100	0.1023		mg/Kg		102	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2124		mg/Kg		106	70 - 130	11	35
o-Xylene			0.100	0.1057		mg/Kg		106	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-8179-1 MS
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: CS 165
Prep Type: Total/NA
Prep Batch: 110494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08487		mg/Kg		85	70 - 130		
Toluene	<0.00200	U	0.100	0.08247		mg/Kg		82	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8179-1 MS — **Client Sample ID: CS 165**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110489 — **Prep Batch: 110494**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07899		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1603		mg/Kg		80	70 - 130
o-Xylene	<0.00200	U	0.100	0.08049		mg/Kg		80	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-8179-1 MSD — **Client Sample ID: CS 165**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110489 — **Prep Batch: 110494**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08104		mg/Kg		81	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.07744		mg/Kg		77	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.100	0.07325		mg/Kg		73	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1495		mg/Kg		75	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.07608		mg/Kg		76	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110484/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110685 — **Prep Batch: 110484**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/20/25 07:54	05/22/25 01:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*
o-Terphenyl	*75*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*

Lab Sample ID: LCS 880-110484/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110685 — **Prep Batch: 110484**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	867.2		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)	1000	871.2		mg/Kg		87	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110484/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110484

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-110484/3-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110484

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	829.2		mg/Kg		83	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	841.9		mg/Kg		84	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-8179-1 MS
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: CS 165
Prep Type: Total/NA
Prep Batch: 110484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	719.2		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	791.0		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-8179-1 MSD
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: CS 165
Prep Type: Total/NA
Prep Batch: 110484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	731.9		mg/Kg		73	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	748.0		mg/Kg		75	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	86		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110448/1-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 11:21	1

Lab Sample ID: LCS 880-110448/2-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.7		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110448/3-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8174-A-10-B MS
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	475		253	738.0		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8174-A-10-C MSD
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	475		253	732.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: MB 880-110438/1-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 18:15	1

Lab Sample ID: LCS 880-110438/2-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.5		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110438/3-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.6		mg/Kg		104	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-8176-A-9-B MS
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	301		249	571.8		mg/Kg		109	90 - 110		

Lab Sample ID: 890-8176-A-9-C MSD
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	301		249	571.6		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

GC VOA

Analysis Batch: 110489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	8021B	110494
890-8179-2	CS 164	Total/NA	Solid	8021B	110494
890-8179-3	CS 18	Total/NA	Solid	8021B	110494
890-8179-4	CS 166	Total/NA	Solid	8021B	110494
890-8179-5	CS 17	Total/NA	Solid	8021B	110494
890-8179-6	CS 176	Total/NA	Solid	8021B	110494
890-8179-7	CS 169	Total/NA	Solid	8021B	110494
890-8179-8	CS 159	Total/NA	Solid	8021B	110494
890-8179-9	CS 172	Total/NA	Solid	8021B	110494
890-8179-10	CS 177	Total/NA	Solid	8021B	110494
MB 880-110494/5-A	Method Blank	Total/NA	Solid	8021B	110494
LCS 880-110494/1-A	Lab Control Sample	Total/NA	Solid	8021B	110494
LCSD 880-110494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110494
890-8179-1 MS	CS 165	Total/NA	Solid	8021B	110494
890-8179-1 MSD	CS 165	Total/NA	Solid	8021B	110494

Prep Batch: 110494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	5035	
890-8179-2	CS 164	Total/NA	Solid	5035	
890-8179-3	CS 18	Total/NA	Solid	5035	
890-8179-4	CS 166	Total/NA	Solid	5035	
890-8179-5	CS 17	Total/NA	Solid	5035	
890-8179-6	CS 176	Total/NA	Solid	5035	
890-8179-7	CS 169	Total/NA	Solid	5035	
890-8179-8	CS 159	Total/NA	Solid	5035	
890-8179-9	CS 172	Total/NA	Solid	5035	
890-8179-10	CS 177	Total/NA	Solid	5035	
MB 880-110494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8179-1 MS	CS 165	Total/NA	Solid	5035	
890-8179-1 MSD	CS 165	Total/NA	Solid	5035	

Analysis Batch: 110627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	Total BTEX	
890-8179-2	CS 164	Total/NA	Solid	Total BTEX	
890-8179-3	CS 18	Total/NA	Solid	Total BTEX	
890-8179-4	CS 166	Total/NA	Solid	Total BTEX	
890-8179-5	CS 17	Total/NA	Solid	Total BTEX	
890-8179-6	CS 176	Total/NA	Solid	Total BTEX	
890-8179-7	CS 169	Total/NA	Solid	Total BTEX	
890-8179-8	CS 159	Total/NA	Solid	Total BTEX	
890-8179-9	CS 172	Total/NA	Solid	Total BTEX	
890-8179-10	CS 177	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

GC Semi VOA

Prep Batch: 110484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	8015NM Prep	
890-8179-2	CS 164	Total/NA	Solid	8015NM Prep	
890-8179-3	CS 18	Total/NA	Solid	8015NM Prep	
890-8179-4	CS 166	Total/NA	Solid	8015NM Prep	
890-8179-5	CS 17	Total/NA	Solid	8015NM Prep	
890-8179-6	CS 176	Total/NA	Solid	8015NM Prep	
890-8179-7	CS 169	Total/NA	Solid	8015NM Prep	
890-8179-8	CS 159	Total/NA	Solid	8015NM Prep	
890-8179-9	CS 172	Total/NA	Solid	8015NM Prep	
890-8179-10	CS 177	Total/NA	Solid	8015NM Prep	
MB 880-110484/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110484/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110484/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8179-1 MS	CS 165	Total/NA	Solid	8015NM Prep	
890-8179-1 MSD	CS 165	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	8015B NM	110484
890-8179-2	CS 164	Total/NA	Solid	8015B NM	110484
890-8179-3	CS 18	Total/NA	Solid	8015B NM	110484
890-8179-4	CS 166	Total/NA	Solid	8015B NM	110484
890-8179-5	CS 17	Total/NA	Solid	8015B NM	110484
890-8179-6	CS 176	Total/NA	Solid	8015B NM	110484
890-8179-7	CS 169	Total/NA	Solid	8015B NM	110484
890-8179-8	CS 159	Total/NA	Solid	8015B NM	110484
890-8179-9	CS 172	Total/NA	Solid	8015B NM	110484
890-8179-10	CS 177	Total/NA	Solid	8015B NM	110484
MB 880-110484/1-A	Method Blank	Total/NA	Solid	8015B NM	110484
LCS 880-110484/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110484
LCSD 880-110484/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110484
890-8179-1 MS	CS 165	Total/NA	Solid	8015B NM	110484
890-8179-1 MSD	CS 165	Total/NA	Solid	8015B NM	110484

Analysis Batch: 110731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	8015 NM	
890-8179-2	CS 164	Total/NA	Solid	8015 NM	
890-8179-3	CS 18	Total/NA	Solid	8015 NM	
890-8179-4	CS 166	Total/NA	Solid	8015 NM	
890-8179-5	CS 17	Total/NA	Solid	8015 NM	
890-8179-6	CS 176	Total/NA	Solid	8015 NM	
890-8179-7	CS 169	Total/NA	Solid	8015 NM	
890-8179-8	CS 159	Total/NA	Solid	8015 NM	
890-8179-9	CS 172	Total/NA	Solid	8015 NM	
890-8179-10	CS 177	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

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Leach Batch: 110438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Soluble	Solid	DI Leach	
890-8179-2	CS 164	Soluble	Solid	DI Leach	
890-8179-3	CS 18	Soluble	Solid	DI Leach	
890-8179-4	CS 166	Soluble	Solid	DI Leach	
890-8179-5	CS 17	Soluble	Solid	DI Leach	
890-8179-6	CS 176	Soluble	Solid	DI Leach	
890-8179-7	CS 169	Soluble	Solid	DI Leach	
890-8179-8	CS 159	Soluble	Solid	DI Leach	
MB 880-110438/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110438/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8176-A-9-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8176-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 110448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-9	CS 172	Soluble	Solid	DI Leach	
890-8179-10	CS 177	Soluble	Solid	DI Leach	
MB 880-110448/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8174-A-10-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8174-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 110516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-9	CS 172	Soluble	Solid	300.0	110448
890-8179-10	CS 177	Soluble	Solid	300.0	110448
MB 880-110448/1-A	Method Blank	Soluble	Solid	300.0	110448
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	300.0	110448
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110448
890-8174-A-10-B MS	Matrix Spike	Soluble	Solid	300.0	110448
890-8174-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110448

Analysis Batch: 110534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Soluble	Solid	300.0	110438
890-8179-2	CS 164	Soluble	Solid	300.0	110438
890-8179-3	CS 18	Soluble	Solid	300.0	110438
890-8179-4	CS 166	Soluble	Solid	300.0	110438
890-8179-5	CS 17	Soluble	Solid	300.0	110438
890-8179-6	CS 176	Soluble	Solid	300.0	110438
890-8179-7	CS 169	Soluble	Solid	300.0	110438
890-8179-8	CS 159	Soluble	Solid	300.0	110438
MB 880-110438/1-A	Method Blank	Soluble	Solid	300.0	110438
LCS 880-110438/2-A	Lab Control Sample	Soluble	Solid	300.0	110438
LCSD 880-110438/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110438
890-8176-A-9-B MS	Matrix Spike	Soluble	Solid	300.0	110438
890-8176-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110438

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 165

Date Collected: 05/15/25 10:52
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 11:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 11:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 02:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 02:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:44	SMC	EET MID

Client Sample ID: CS 164

Date Collected: 05/15/25 10:56
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 12:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 12:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 02:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 02:56	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:05	SMC	EET MID

Client Sample ID: CS 18

Date Collected: 05/15/25 09:30
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 12:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 03:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 03:12	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:12	SMC	EET MID

Client Sample ID: CS 166

Date Collected: 05/15/25 10:48
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 12:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 12:51	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 166

Date Collected: 05/15/25 10:48
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110731	05/22/25 03:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 03:28	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:19	SMC	EET MID

Client Sample ID: CS 17

Date Collected: 05/15/25 09:22
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 13:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 03:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 03:44	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:26	SMC	EET MID

Client Sample ID: CS 176

Date Collected: 05/15/25 09:53
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 04:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 04:01	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:33	SMC	EET MID

Client Sample ID: CS 169

Date Collected: 05/15/25 10:33
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 04:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 04:16	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 169

Date Collected: 05/15/25 10:33
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:41	SMC	EET MID

Client Sample ID: CS 159

Date Collected: 05/15/25 11:19
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 14:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 04:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 04:33	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:48	SMC	EET MID

Client Sample ID: CS 172

Date Collected: 05/15/25 10:44
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 14:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 04:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 04:48	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:59	SMC	EET MID

Client Sample ID: CS 177

Date Collected: 05/15/25 09:49
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 14:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 05:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 05:05	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 15:05	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8179-1	CS 165	Solid	05/15/25 10:52	05/16/25 15:57	3
890-8179-2	CS 164	Solid	05/15/25 10:56	05/16/25 15:57	3
890-8179-3	CS 18	Solid	05/15/25 09:30	05/16/25 15:57	2
890-8179-4	CS 166	Solid	05/15/25 10:48	05/16/25 15:57	3
890-8179-5	CS 17	Solid	05/15/25 09:22	05/16/25 15:57	2
890-8179-6	CS 176	Solid	05/15/25 09:53	05/16/25 15:57	3
890-8179-7	CS 169	Solid	05/15/25 10:33	05/16/25 15:57	3
890-8179-8	CS 159	Solid	05/15/25 11:19	05/16/25 15:57	3
890-8179-9	CS 172	Solid	05/15/25 10:44	05/16/25 15:57	3
890-8179-10	CS 177	Solid	05/15/25 09:49	05/16/25 15:57	3

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5/22/2025

Chain of Custody

eurofins | Environment Testing Xenco

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

890-8179 Chain of Custody

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895	Email:	hgreen@ensolum.com

Prog.
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☒ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#22	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

Pres. Code

Parameters: BTEX 8021 sg 5/15/25; TPH 8015; Chloride 300

ANALYSIS REQUEST

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
CS165	Soil	5/15/25	10:52	3'	C	1	
CS164			10:56	3'			
CS18			09:30	2'			
CS166			10:48	3'			
CS17			09:22	2'			
CS176			09:53	3'			
CS169			10:33	3'			
CS159			11:19	3'			
CS172			10:44	3'			
CS177			9:49	3'			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed — TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Trevor Wargo		5/16 1552	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5155.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8179-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 165 (890-8179-1)	5/15/25	10:52 Mountain	G	Solid			X	X	X	X	X	1	
CS 164 (890-8179-2)	5/15/25	10:56 Mountain	G	Solid			X	X	X	X	X	1	
CS 18 (890-8179-3)	5/15/25	09:30 Mountain	G	Solid			X	X	X	X	X	1	
CS 166 (890-8179-4)	5/15/25	10:48 Mountain	G	Solid			X	X	X	X	X	1	
CS 17 (890-8179-5)	5/15/25	09:22 Mountain	G	Solid			X	X	X	X	X	1	
CS 176 (890-8179-6)	5/15/25	09:53 Mountain	G	Solid			X	X	X	X	X	1	
CS 169 (890-8179-7)	5/15/25	10:33 Mountain	G	Solid			X	X	X	X	X	1	
CS 159 (890-8179-8)	5/15/25	11:19 Mountain	G	Solid			X	X	X	X	X	1	
CS 172 (890-8179-9)	5/15/25	10:44 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	5/19 1630		[signature]		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	5/20/25 0800	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM
Released to Imaging: 8/4/2025 3:28:31 PM
5/22/2025
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Eurofins Carlsbad
1089 N Canal St
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5155.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8179-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 177 (890-8179-10)	5/15/25	09:49 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:		

5/19 1630 — 5/20/25 0800

Ver: 10/10/2024

5/22/2025
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Received by OCD: 6/20/2025 1:15:28 PM
Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8179-1
SDG Number: 03D3836001

Login Number: 8179
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8179-1
SDG Number: 03D3836001

Login Number: 8179
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 6/10/2025 10:07:18 PM Revision 1

JOB DESCRIPTION

Flatland FNR Frac Line
Eddy County

JOB NUMBER

880-58802-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/24/2025 3:28:51 PM

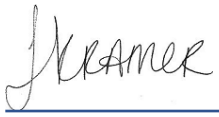
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
6/10/2025 10:07:18 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Laboratory Job ID: 880-58802-1
SDG: Eddy County

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-58802-1
Project: Flatland FNR Frac Line

Job ID: 880-58802-1 Eurofins Midland

Job Narrative
880-58802-1

REVISION

The report being provided is a revision of the original report sent on 6/5/2025. The report (revision 1) is being revised due to Revised report to verify a result per client request..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/30/2025 4:06 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 0.5°C.

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-111295 and analytical batch 880-111288 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS167 (880-58802-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111296 and analytical batch 880-111341 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-111283 and analytical batch 880-111332 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-8256-A-14-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-111324 and analytical batch 880-111334 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS52 (880-58802-19), (880-58802-A-12-D MS) and (880-58802-A-12-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-111283 and analytical batch 880-111332 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS31 (880-58802-44), CS57 (880-58802-54) and (880-58802-A-52-E MSD). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Ensolum Job ID: 880-58802-1
Project: Flatland FNR Frac Line

Job ID: 880-58802-1 (Continued) Eurofins Midland

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS77 (880-58802-28). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111501 and analytical batch 880-111564 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.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111292 and analytical batch 880-111339 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111291 and analytical batch 880-111337 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111290 and analytical batch 880-111336 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111294 and analytical batch 880-111383 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111800 and analytical batch 880-111803 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.

The associated samples are: CS16 (880-58802-4), (880-59078-A-1-A), (880-59078-A-1-B MS) and (880-59078-A-1-C MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111711 and analytical batch 880-111721 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.

The associated samples are: CS16 (880-58802-4), (880-59058-A-1-A), (880-59058-A-1-B MS) and (880-59058-A-1-C MSD).

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: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS10

Lab Sample ID: 880-58802-1
Matrix: Solid
Date Collected: 05/30/25 09:00
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:14*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 12:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 02:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 02:34	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 02:34	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 08:21	06/03/25 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 02:34*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 08:21*	*06/03/25 02:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**343**	**F1**	10.0		mg/Kg			06/02/25 12:18	1

Client Sample ID: CS11

Lab Sample ID: 880-58802-2
Matrix: Solid
Date Collected: 05/30/25 09:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:56	06/02/25 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:34*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS11

Date Collected: 05/30/25 09:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			06/03/25 03:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	mg/Kg		06/02/25 08:21	06/03/25 03:06	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		06/02/25 08:21	06/03/25 03:06	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/02/25 08:21	06/03/25 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:06*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**217**		10.0	mg/Kg			06/02/25 12:39	1

Client Sample ID: CS13

Date Collected: 05/30/25 09:04
Date Received: 05/30/25 16:06
Sample Depth: 1.5'

Lab Sample ID: 880-58802-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/02/25 09:56	06/02/25 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:55*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/02/25 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 03:21	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS13

Lab Sample ID: 880-58802-3
Matrix: Solid
Date Collected: 05/30/25 09:04
Date Received: 05/30/25 16:06
Sample Depth: 1.5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:21*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**381**		10.1		mg/Kg			06/02/25 12:46	1

Client Sample ID: CS16

Lab Sample ID: 880-58802-4
Matrix: Solid
Date Collected: 05/30/25 09:06
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:15*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 13:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 03:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:38*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS16

Lab Sample ID: 880-58802-4
Matrix: Solid
Date Collected: 05/30/25 09:06
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	509		9.96		mg/Kg			06/09/25 17:44	1

Client Sample ID: CS19

Lab Sample ID: 880-58802-5
Matrix: Solid
Date Collected: 05/30/25 09:08
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/25 09:56	06/02/25 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:36*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/02/25 13:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 03:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 03:54	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 03:54	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 08:21	06/03/25 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:54*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		10.0		mg/Kg			06/02/25 13:01	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS21

Lab Sample ID: 880-58802-6
Matrix: Solid
Date Collected: 05/30/25 09:10
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:56	06/02/25 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:56*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 13:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 04:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 04:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 04:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 08:21	06/03/25 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:10*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**318**		10.0		mg/Kg			06/02/25 13:22	1

Client Sample ID: CS22

Lab Sample ID: 880-58802-7
Matrix: Solid
Date Collected: 05/30/25 09:12
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS22

Date Collected: 05/30/25 09:12
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-7

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 14:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 04:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1	mg/Kg		06/02/25 08:21	06/03/25 04:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1	mg/Kg		06/02/25 08:21	06/03/25 04:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/02/25 08:21	06/03/25 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:26*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		10.0	mg/Kg			06/02/25 13:29	1

Client Sample ID: CS23

Date Collected: 05/30/25 09:14
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-8

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:37*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/03/25 04:42	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS23

Lab Sample ID: 880-58802-8
Matrix: Solid
Date Collected: 05/30/25 09:14
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/02/25 08:21	06/03/25 04:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		06/02/25 08:21	06/03/25 04:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 08:21	06/03/25 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:42*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**103**		9.94		mg/Kg			06/02/25 13:36	1

Client Sample ID: CS24

Lab Sample ID: 880-58802-9
Matrix: Solid
Date Collected: 05/30/25 09:16
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:56	06/02/25 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:58*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 14:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/03/25 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		06/02/25 08:21	06/03/25 04:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		06/02/25 08:21	06/03/25 04:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 08:21	06/03/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:59*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS24
Lab Sample ID: 880-58802-9
Date Collected: 05/30/25 09:16
Matrix: Solid
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		9.98		mg/Kg			06/02/25 13:43	1

Client Sample ID: CS25
Lab Sample ID: 880-58802-10
Date Collected: 05/30/25 09:18
Matrix: Solid
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:56*	*06/02/25 15:19*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*06/02/25 09:56*	*06/02/25 15:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 15:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 05:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 05:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 05:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 08:21	06/03/25 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 05:15*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 08:21*	*06/03/25 05:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		9.92		mg/Kg			06/02/25 13:50	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS44

Date Collected: 05/30/25 09:40
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:56	06/02/25 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:56*	*06/02/25 16:53*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*06/02/25 09:56*	*06/02/25 16:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/02/25 16:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 05:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 05:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 05:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 08:21	06/03/25 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 08:21*	*06/03/25 05:32*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 08:21*	*06/03/25 05:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.2**	**F1**	10.0		mg/Kg			06/02/25 13:57	1

Client Sample ID: CS45

Date Collected: 05/30/25 09:42
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS45

Lab Sample ID: 880-58802-12
Matrix: Solid
Date Collected: 05/30/25 09:42
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/02/25 17:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 05:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/03/25 10:55	06/04/25 05:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/03/25 10:55	06/04/25 05:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/03/25 10:55	06/04/25 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/03/25 10:55*	*06/04/25 05:31*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/03/25 10:55*	*06/04/25 05:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		10.1	mg/Kg			06/02/25 14:19	1

Client Sample ID: CS46

Lab Sample ID: 880-58802-13
Matrix: Solid
Date Collected: 05/30/25 09:44
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:34*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 17:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 00:26	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS46

Lab Sample ID: 880-58802-13
Matrix: Solid
Date Collected: 05/30/25 09:44
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 00:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 00:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:26*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**118**		9.94		mg/Kg			06/02/25 14:26	1

Client Sample ID: CS47

Lab Sample ID: 880-58802-14
Matrix: Solid
Date Collected: 05/30/25 09:46
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:55*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 17:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/03/25 00:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 00:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 00:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:41*	*1*
o-Terphenyl	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:41*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS47
Date Collected: 05/30/25 09:46
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		9.92		mg/Kg			06/02/25 14:47	1

Client Sample ID: CS48
Date Collected: 05/30/25 09:48
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-15
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:15*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 18:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 00:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 00:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 00:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:58*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		10.0		mg/Kg			06/02/25 14:54	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS49

Lab Sample ID: 880-58802-16
Matrix: Solid
Date Collected: 05/30/25 09:50
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:36*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 18:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 01:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 01:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:13*	*1*
o-Terphenyl	*74*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.6**		9.92		mg/Kg			06/02/25 15:01	1

Client Sample ID: CS50

Lab Sample ID: 880-58802-17
Matrix: Solid
Date Collected: 05/30/25 09:52
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS50

Lab Sample ID: 880-58802-17
Matrix: Solid
Date Collected: 05/30/25 09:52
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 18:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/03/25 01:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/02/25 10:46	06/03/25 01:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/02/25 10:46	06/03/25 01:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/02/25 10:46	06/03/25 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:30*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**164**		10.0	mg/Kg			06/02/25 15:08	1

Client Sample ID: CS51

Lab Sample ID: 880-58802-18
Matrix: Solid
Date Collected: 05/30/25 09:54
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:17*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 19:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 01:46	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS51

Lab Sample ID: 880-58802-18
Matrix: Solid
Date Collected: 05/30/25 09:54
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 01:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 01:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:46*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		9.94		mg/Kg			06/02/25 15:15	1

Client Sample ID: CS52

Lab Sample ID: 880-58802-19
Matrix: Solid
Date Collected: 05/30/25 09:56
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:37*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			06/03/25 02:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 02:02	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 02:02	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*06/02/25 10:46*	*06/03/25 02:02*	*1*
o-Terphenyl	*70*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS52
Date Collected: 05/30/25 09:56
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-19
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273		9.92		mg/Kg			06/02/25 16:19	1

Client Sample ID: CS53
Date Collected: 05/30/25 09:58
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-20
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:58*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/03/25 02:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 02:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 02:18	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:18*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		9.92		mg/Kg			06/02/25 16:41	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS70

Lab Sample ID: 880-58802-21
Matrix: Solid
Date Collected: 05/30/25 10:20
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:18*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 02:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 02:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 02:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:34*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**132**		10.0		mg/Kg			06/02/25 16:48	1

Client Sample ID: CS71

Lab Sample ID: 880-58802-22
Matrix: Solid
Date Collected: 05/30/25 10:22
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:58	06/02/25 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS71
Date Collected: 05/30/25 10:22
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-22
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 13:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/04/25 05:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/03/25 10:55	06/04/25 05:46	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/03/25 10:55	06/04/25 05:46	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/03/25 10:55	06/04/25 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/03/25 10:55*	*06/04/25 05:46*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/03/25 10:55*	*06/04/25 05:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**134**		10.0	mg/Kg			06/02/25 16:55	1

Client Sample ID: CS72
Date Collected: 05/30/25 10:24
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/02/25 09:58	06/02/25 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:59*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/02/25 13:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			06/03/25 03:21	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS72

Lab Sample ID: 880-58802-23
Matrix: Solid
Date Collected: 05/30/25 10:24
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 03:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 03:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:21*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.2**		10.0		mg/Kg			06/02/25 17:03	1

Client Sample ID: CS73

Lab Sample ID: 880-58802-24
Matrix: Solid
Date Collected: 05/30/25 10:26
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 14:19*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 14:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 14:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 03:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:38	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:38	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:38*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS73
Date Collected: 05/30/25 10:26
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-24
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		10.1		mg/Kg			06/02/25 17:25	1

Client Sample ID: CS74
Date Collected: 05/30/25 10:28
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-25
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/25 09:58	06/02/25 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/02/25 09:58*	*06/02/25 14:40*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:58*	*06/02/25 14:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/02/25 14:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 03:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:54	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:54	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:54*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.96		mg/Kg			06/02/25 17:32	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS75

Lab Sample ID: 880-58802-26
Matrix: Solid
Date Collected: 05/30/25 10:30
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:58	06/02/25 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:00*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 15:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 04:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 04:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 04:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 04:10*	*1*
o-Terphenyl	*74*		*70 - 130*	*06/02/25 10:46*	*06/03/25 04:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		9.92		mg/Kg			06/02/25 17:39	1

Client Sample ID: CS76

Lab Sample ID: 880-58802-27
Matrix: Solid
Date Collected: 05/30/25 10:32
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:21*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS76
Date Collected: 05/30/25 10:32
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-27
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 15:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/04/25 06:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/03/25 10:55	06/04/25 06:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/03/25 10:55	06/04/25 06:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/03/25 10:55	06/04/25 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/03/25 10:55*	*06/04/25 06:03*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/03/25 10:55*	*06/04/25 06:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**122**		10.0	mg/Kg			06/02/25 17:47	1

Client Sample ID: CS77
Date Collected: 05/30/25 10:34
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-28
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:41*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 15:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 06:19	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS77

Lab Sample ID: 880-58802-28
Matrix: Solid
Date Collected: 05/30/25 10:34
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 06:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 06:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*06/03/25 10:55*	*06/04/25 06:19*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*06/03/25 10:55*	*06/04/25 06:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		10.1		mg/Kg			06/02/25 17:54	1

Client Sample ID: CS81

Lab Sample ID: 880-58802-29
Matrix: Solid
Date Collected: 05/30/25 10:36
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:58	06/02/25 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/02/25 09:58*	*06/02/25 16:02*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/02/25 09:58*	*06/02/25 16:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 16:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			06/03/25 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 04:59	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 04:59	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*06/02/25 10:46*	*06/03/25 04:59*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:46*	*06/03/25 04:59*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS81
Date Collected: 05/30/25 10:36
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-29
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130	F1	9.96		mg/Kg			06/02/25 18:01	1

Client Sample ID: CS82
Date Collected: 05/30/25 10:38
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-30
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/02/25 09:58*	*06/02/25 16:22*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/02/25 09:58*	*06/02/25 16:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 16:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 05:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 05:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 05:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 05:15*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 05:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		9.92		mg/Kg			06/02/25 18:23	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS83

Lab Sample ID: 880-58802-31
Matrix: Solid
Date Collected: 05/30/25 10:40
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:58	06/02/25 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:13*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/02/25 18:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/03/25 05:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 10:46	06/03/25 05:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 10:46	06/03/25 05:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 10:46	06/03/25 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:46*	*06/03/25 05:32*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 10:46*	*06/03/25 05:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**118**		9.98		mg/Kg			06/02/25 18:30	1

Client Sample ID: CS84

Lab Sample ID: 880-58802-32
Matrix: Solid
Date Collected: 05/30/25 10:42
Date Received: 05/30/25 16:06
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:33*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS84
Date Collected: 05/30/25 10:42
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-32
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/02/25 18:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/04/25 01:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 01:00	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 01:00	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 01:00*	*1*
o-Terphenyl	*71*		*70 - 130*	*06/02/25 10:53*	*06/04/25 01:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**161**		10.0	mg/Kg			06/02/25 18:52	1

Client Sample ID: CS139
Date Collected: 05/30/25 10:44
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-33
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:54*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 18:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 01:48	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS139

Lab Sample ID: 880-58802-33
Matrix: Solid
Date Collected: 05/30/25 10:44
Date Received: 05/30/25 16:06
Sample Depth: 2'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 01:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 01:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/02/25 10:53*	*06/04/25 01:48*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/02/25 10:53*	*06/04/25 01:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**		10.1		mg/Kg			06/02/25 19:00	1

Client Sample ID: CS140

Lab Sample ID: 880-58802-34
Matrix: Solid
Date Collected: 05/30/25 10:46
Date Received: 05/30/25 16:06
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:14*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/04/25 02:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 02:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 02:05	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:05*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:05*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS140
Date Collected: 05/30/25 10:46
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-34
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		9.94		mg/Kg			06/02/25 19:07	1

Client Sample ID: CS145
Date Collected: 05/30/25 10:48
Date Received: 05/30/25 16:06
Sample Depth: 3'

Lab Sample ID: 880-58802-35
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:35*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/04/25 02:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 02:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 02:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:20*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		9.96		mg/Kg			06/02/25 19:14	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS146

Lab Sample ID: 880-58802-36
Matrix: Solid
Date Collected: 05/30/25 10:50
Date Received: 05/30/25 16:06
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		06/02/25 09:58	06/02/25 19:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 19:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 19:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 19:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 19:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:55*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 19:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/04/25 02:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 02:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 02:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:37*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		9.92		mg/Kg			06/02/25 19:22	1

Client Sample ID: CS150

Lab Sample ID: 880-58802-37
Matrix: Solid
Date Collected: 05/30/25 10:52
Date Received: 05/30/25 16:06
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS150

Date Collected: 05/30/25 10:52
Date Received: 05/30/25 16:06
Sample Depth: 3'

Lab Sample ID: 880-58802-37

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 20:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/04/25 02:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/02/25 10:53	06/04/25 02:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/02/25 10:53	06/04/25 02:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/02/25 10:53	06/04/25 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:52*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		10.0	mg/Kg			06/02/25 19:29	1

Client Sample ID: CS151

Date Collected: 05/30/25 10:54
Date Received: 05/30/25 16:06
Sample Depth: 3.5'

Lab Sample ID: 880-58802-38

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:36*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 20:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/04/25 03:08	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS151
Date Collected: 05/30/25 10:54
Date Received: 05/30/25 16:06
Sample Depth: 3.5'

Lab Sample ID: 880-58802-38
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:08	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:08	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:08*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		10.1		mg/Kg			06/02/25 19:36	1

Client Sample ID: CS167
Date Collected: 05/30/25 10:56
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-39
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*06/02/25 09:58*	*06/02/25 20:56*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 20:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/04/25 03:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:24	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:24	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:24*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS167
Date Collected: 05/30/25 10:56
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-39
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.2	F1	10.0		mg/Kg			06/02/25 16:26	1

Client Sample ID: CS168
Date Collected: 05/30/25 10:58
Date Received: 05/30/25 16:06
Sample Depth: 1.5'

Lab Sample ID: 880-58802-40
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/02/25 09:58*	*06/02/25 21:17*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/02/25 09:58*	*06/02/25 21:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 21:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/04/25 03:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 03:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 03:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:40*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		10.2		mg/Kg			06/02/25 16:47	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS26

Lab Sample ID: 880-58802-41
Matrix: Solid
Date Collected: 05/30/25 09:20
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		06/02/25 09:59	06/02/25 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/02/25 09:59*	*06/02/25 18:34*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/02/25 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/04/25 03:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 03:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 03:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:55*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**193**		9.92		mg/Kg			06/02/25 16:55	1

Client Sample ID: CS27

Lab Sample ID: 880-58802-42
Matrix: Solid
Date Collected: 05/30/25 09:22
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:59	06/02/25 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/02/25 18:54*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS27

Lab Sample ID: 880-58802-42
Matrix: Solid
Date Collected: 05/30/25 09:22
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/02/25 18:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 18:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/04/25 04:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 04:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 04:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:26*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		10.0	mg/Kg			06/02/25 17:02	1

Client Sample ID: CS29

Lab Sample ID: 880-58802-43
Matrix: Solid
Date Collected: 05/30/25 09:24
Date Received: 05/30/25 16:06
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/02/25 09:59	06/02/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/02/25 19:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 04:43	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS29
Date Collected: 05/30/25 09:24
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-43
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 04:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 04:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:43*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		9.96		mg/Kg			06/02/25 17:09	1

Client Sample ID: CS31
Date Collected: 05/30/25 09:26
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-44
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/02/25 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/04/25 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 04:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 04:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*06/02/25 10:53*	*06/04/25 04:59*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS31
Date Collected: 05/30/25 09:26
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-44
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		9.92		mg/Kg			06/02/25 17:30	1

Client Sample ID: CS32
Date Collected: 05/30/25 09:28
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-45
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/25 09:59	06/02/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:56*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/02/25 19:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/04/25 05:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 05:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 05:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:14*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		10.0		mg/Kg			06/02/25 17:37	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS35

Lab Sample ID: 880-58802-46
Matrix: Solid
Date Collected: 05/30/25 09:30
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:59	06/02/25 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 20:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/04/25 05:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 05:31	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 05:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:31*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		9.94		mg/Kg			06/02/25 17:44	1

Client Sample ID: CS36

Lab Sample ID: 880-58802-47
Matrix: Solid
Date Collected: 05/30/25 09:32
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/02/25 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:37*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS36

Lab Sample ID: 880-58802-47
Matrix: Solid
Date Collected: 05/30/25 09:32
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 20:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 05:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/02/25 10:53	06/04/25 05:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/02/25 10:53	06/04/25 05:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/02/25 10:53	06/04/25 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:46*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		9.96	mg/Kg			06/02/25 17:51	1

Client Sample ID: CS39

Lab Sample ID: 880-58802-48
Matrix: Solid
Date Collected: 05/30/25 09:34
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/02/25 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 20:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/04/25 06:03	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS39
Date Collected: 05/30/25 09:34
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-48
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 06:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 06:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:03*	*1*
o-Terphenyl	*82*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		9.92		mg/Kg			06/02/25 17:58	1

Client Sample ID: CS40
Date Collected: 05/30/25 09:36
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-49
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:59	06/02/25 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/02/25 09:59*	*06/02/25 21:18*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 21:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 21:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/04/25 06:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:19	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:19	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:19*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:19*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS40
Date Collected: 05/30/25 09:36
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-49
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.2	F1	10.0		mg/Kg			06/02/25 18:05	1

Client Sample ID: CS43
Date Collected: 05/30/25 09:38
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-50
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/02/25 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 21:38*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 21:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 21:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/04/25 06:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:36	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:36*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		10.1		mg/Kg			06/02/25 18:27	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS54
Date Collected: 05/30/25 10:00
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-51
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:59	06/02/25 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:02*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/02/25 23:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/04/25 06:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 06:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 06:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:51*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**145**		9.94		mg/Kg			06/02/25 18:34	1

Client Sample ID: CS55
Date Collected: 05/30/25 10:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-52
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/02/25 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:23*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS55

Lab Sample ID: 880-58802-52
Matrix: Solid
Date Collected: 05/30/25 10:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/02/25 23:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			06/03/25 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		06/02/25 11:00	06/03/25 16:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		06/02/25 11:00	06/03/25 16:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/02/25 11:00	06/03/25 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 11:00*	*06/03/25 16:59*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 11:00*	*06/03/25 16:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.6**		9.96	mg/Kg			06/02/25 18:55	1

Client Sample ID: CS56

Lab Sample ID: 880-58802-53
Matrix: Solid
Date Collected: 05/30/25 10:04
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/02/25 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:43*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 23:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 17:47	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS56
Date Collected: 05/30/25 10:04
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-53
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 17:47	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 17:47	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*06/02/25 11:00*	*06/03/25 17:47*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/02/25 11:00*	*06/03/25 17:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.0**		9.98		mg/Kg			06/02/25 19:02	1

Client Sample ID: CS57
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-54
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:04*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 00:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 18:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 18:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*06/02/25 11:00*	*06/03/25 18:03*	*1*
o-Terphenyl	*70*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS57
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-54
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		10.0		mg/Kg			06/02/25 19:09	1

Client Sample ID: CS58
Date Collected: 05/30/25 10:08
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-55
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:24*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 00:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/03/25 18:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 18:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 18:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:19*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.6		10.0		mg/Kg			06/02/25 19:16	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS59

Lab Sample ID: 880-58802-56
Matrix: Solid
Date Collected: 05/30/25 10:10
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/03/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:45*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/03/25 00:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 18:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 18:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 18:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:35*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**216**		10.1		mg/Kg			06/02/25 19:23	1

Client Sample ID: CS65

Lab Sample ID: 880-58802-57
Matrix: Solid
Date Collected: 05/30/25 10:12
Date Received: 05/30/25 16:06
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:06*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS65
Date Collected: 05/30/25 10:12
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-57
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/25 01:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 18:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 18:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:51*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		10.0	mg/Kg			06/02/25 19:30	1

Client Sample ID: CS67
Date Collected: 05/30/25 10:14
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-58
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/03/25 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:26*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/03/25 01:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 19:07	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS67

Lab Sample ID: 880-58802-58
Matrix: Solid
Date Collected: 05/30/25 10:14
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 19:07	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 19:07	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:07*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		9.96		mg/Kg			06/02/25 19:37	1

Client Sample ID: CS68

Lab Sample ID: 880-58802-59
Matrix: Solid
Date Collected: 05/30/25 10:16
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:47*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 01:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/03/25 19:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:23	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:23*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:23*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS68
Date Collected: 05/30/25 10:16
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-59
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.4		10.0		mg/Kg			06/03/25 12:46	1

Client Sample ID: CS69
Date Collected: 05/30/25 10:18
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-60
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/03/25 02:07*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/03/25 02:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 02:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/03/25 19:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:39	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:39	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:39*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		10.1		mg/Kg			06/03/25 12:53	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS170

Lab Sample ID: 880-58802-61
Matrix: Solid
Date Collected: 05/30/25 11:00
Date Received: 05/30/25 16:06
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		06/02/25 10:03	06/03/25 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 10:03	06/03/25 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 10:03	06/03/25 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/02/25 10:03*	*06/03/25 11:32*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 10:03*	*06/03/25 11:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/03/25 11:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			06/03/25 19:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 19:55	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 19:55	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:55*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		9.94		mg/Kg			06/03/25 13:00	1

Client Sample ID: CS178

Lab Sample ID: 880-58802-62
Matrix: Solid
Date Collected: 05/30/25 11:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 10:03	06/03/25 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/02/25 10:03*	*06/03/25 11:53*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS178

Lab Sample ID: 880-58802-62
Matrix: Solid
Date Collected: 05/30/25 11:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 10:03*	*06/03/25 11:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/03/25 11:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 20:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 20:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 11:00*	*06/03/25 20:27*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 20:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**135**		9.92	mg/Kg			06/03/25 13:08	1

Client Sample ID: SW06

Lab Sample ID: 880-58802-63
Matrix: Solid
Date Collected: 05/30/25 11:04
Date Received: 05/30/25 16:06
Sample Depth: 0-1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/02/25 10:03	06/03/25 12:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/03/25 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/03/25 20:43	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW06

Lab Sample ID: 880-58802-63
Matrix: Solid
Date Collected: 05/30/25 11:04
Date Received: 05/30/25 16:06
Sample Depth: 0-1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 20:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 20:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 20:43*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 20:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.9**		10.0		mg/Kg			06/03/25 13:42	1

Client Sample ID: SW08

Lab Sample ID: 880-58802-64
Matrix: Solid
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06
Sample Depth: 0-3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 10:03	06/03/25 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:34*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.4**		50.0		mg/Kg			06/05/25 10:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 10:37	1
Diesel Range Organics (Over C10-C28)	**57.4**		50.0		mg/Kg		06/04/25 12:24	06/05/25 10:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*06/04/25 12:24*	*06/05/25 10:37*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/04/25 12:24*	*06/05/25 10:37*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW08
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06
Sample Depth: 0-3'

Lab Sample ID: 880-58802-64
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		9.96		mg/Kg			06/03/25 13:49	1

Client Sample ID: SW10
Date Collected: 05/30/25 10:08
Date Received: 05/30/25 16:06
Sample Depth: 0-3'

Lab Sample ID: 880-58802-65
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/25 10:03	06/03/25 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:54*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/03/25 12:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			06/03/25 21:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 21:15	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 21:15	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:15*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.8		9.98		mg/Kg			06/03/25 13:56	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW11

Lab Sample ID: 880-58802-66
Matrix: Solid
Date Collected: 05/30/25 11:10
Date Received: 05/30/25 16:06
Sample Depth: 0-2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 10:03	06/03/25 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 10:03*	*06/03/25 13:14*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/02/25 10:03*	*06/03/25 13:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/03/25 13:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/03/25 21:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 21:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 21:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:32*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		9.94		mg/Kg			06/03/25 14:03	1

Client Sample ID: SW13

Lab Sample ID: 880-58802-67
Matrix: Solid
Date Collected: 05/30/25 11:12
Date Received: 05/30/25 16:06
Sample Depth: 0-2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 10:03	06/03/25 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 10:03*	*06/03/25 13:35*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW13
Date Collected: 05/30/25 11:12
Date Received: 05/30/25 16:06
Sample Depth: 0-2'

Lab Sample ID: 880-58802-67
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/02/25 10:03*	*06/03/25 13:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/25 13:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/03/25 21:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/02/25 11:00	06/03/25 21:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/02/25 11:00	06/03/25 21:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/02/25 11:00	06/03/25 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:47*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		10.0	mg/Kg			06/03/25 14:10	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-58802-1	CS10	110	73
880-58802-1 MS	CS10	100	83
880-58802-1 MSD	CS10	109	82
880-58802-2	CS11	102	77
880-58802-3	CS13	107	77
880-58802-4	CS16	96	74
880-58802-5	CS19	102	74
880-58802-6	CS21	104	78
880-58802-7	CS22	100	76
880-58802-8	CS23	103	76
880-58802-9	CS24	105	74
880-58802-10	CS25	105	72
880-58802-11	CS44	105	70
880-58802-12	CS45	105	73
880-58802-13	CS46	110	73
880-58802-14	CS47	101	73
880-58802-15	CS48	107	75
880-58802-16	CS49	101	74
880-58802-17	CS50	95	72
880-58802-18	CS51	98	75
880-58802-19	CS52	102	74
880-58802-20	CS53	100	74
880-58802-21	CS70	79	98
880-58802-21 MS	CS70	92	89
880-58802-21 MSD	CS70	98	101
880-58802-22	CS71	105	113
880-58802-23	CS72	96	100
880-58802-24	CS73	109	109
880-58802-25	CS74	112	105
880-58802-26	CS75	112	110
880-58802-27	CS76	117	117
880-58802-28	CS77	104	105
880-58802-29	CS81	111	103
880-58802-30	CS82	106	103
880-58802-31	CS83	89	102
880-58802-32	CS84	107	109
880-58802-33	CS139	112	111
880-58802-34	CS140	111	109
880-58802-35	CS145	120	110
880-58802-36	CS146	113	111
880-58802-37	CS150	128	115
880-58802-38	CS151	122	105
880-58802-39	CS167	136 S1+	109
880-58802-40	CS168	121	107
880-58802-41	CS26	91	96
880-58802-41 MS	CS26	109	98
880-58802-41 MSD	CS26	111	89
880-58802-42	CS27	92	96
880-58802-43	CS29	91	97

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-58802-44	CS31	96	97
880-58802-45	CS32	91	95
880-58802-46	CS35	93	96
880-58802-47	CS36	95	100
880-58802-48	CS39	92	94
880-58802-49	CS40	91	94
880-58802-50	CS43	94	94
880-58802-51	CS54	92	81
880-58802-52	CS55	97	95
880-58802-53	CS56	92	94
880-58802-54	CS57	100	100
880-58802-55	CS58	95	100
880-58802-56	CS59	92	92
880-58802-57	CS65	95	96
880-58802-58	CS67	92	94
880-58802-59	CS68	98	97
880-58802-60	CS69	94	97
880-58802-61	CS170	106	102
880-58802-61 MS	CS170	93	90
880-58802-61 MSD	CS170	100	96
880-58802-62	CS178	104	100
880-58802-63	SW06	106	98
880-58802-64	SW08	108	104
880-58802-65	SW10	103	101
880-58802-66	SW11	102	101
880-58802-67	SW13	98	99
LCS 880-111293/1-A	Lab Control Sample	103	84
LCS 880-111295/1-A	Lab Control Sample	94	98
LCS 880-111296/1-A	Lab Control Sample	106	102
LCS 880-111298/1-A	Lab Control Sample	95	90
LCSD 880-111293/2-A	Lab Control Sample Dup	96	84
LCSD 880-111295/2-A	Lab Control Sample Dup	98	97
LCSD 880-111296/2-A	Lab Control Sample Dup	109	100
LCSD 880-111298/2-A	Lab Control Sample Dup	96	85
MB 880-111293/5-A	Method Blank	98	71
MB 880-111295/5-A	Method Blank	147 S1+	94
MB 880-111296/5-A	Method Blank	84	90
MB 880-111298/5-A	Method Blank	94	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-58802-1	CS10	73	77
880-58802-2	CS11	73	78

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-58802-3	CS13	73	77								
880-58802-4	CS16	74	78								
880-58802-5	CS19	70	73								
880-58802-6	CS21	72	76								
880-58802-7	CS22	70	75								
880-58802-8	CS23	73	76								
880-58802-9	CS24	71	75								
880-58802-10	CS25	73	77								
880-58802-11	CS44	72	77								
880-58802-12	CS45	74	75								
880-58802-12 MS	CS45	68 S1-	73								
880-58802-12 MSD	CS45	69 S1-	73								
880-58802-13	CS46	71	73								
880-58802-14	CS47	71	71								
880-58802-15	CS48	71	72								
880-58802-16	CS49	73	74								
880-58802-17	CS50	71	72								
880-58802-18	CS51	72	73								
880-58802-19	CS52	69 S1-	70								
880-58802-20	CS53	71	72								
880-58802-21	CS70	72	73								
880-58802-22	CS71	78	78								
880-58802-23	CS72	71	73								
880-58802-24	CS73	72	72								
880-58802-25	CS74	72	73								
880-58802-26	CS75	73	74								
880-58802-27	CS76	71	73								
880-58802-28	CS77	133 S1+	135 S1+								
880-58802-29	CS81	79	78								
880-58802-30	CS82	72	72								
880-58802-31	CS83	75	77								
880-58802-32	CS84	74	71								
880-58802-32 MS	CS84	86	73								
880-58802-32 MSD	CS84	72	74								
880-58802-33	CS139	81	85								
880-58802-34	CS140	76	73								
880-58802-35	CS145	74	79								
880-58802-36	CS146	75	78								
880-58802-37	CS150	74	78								
880-58802-38	CS151	72	76								
880-58802-39	CS167	74	77								
880-58802-40	CS168	76	79								
880-58802-41	CS26	75	79								
880-58802-42	CS27	73	78								
880-58802-43	CS29	74	77								
880-58802-44	CS31	69 S1-	72								
880-58802-45	CS32	75	81								
880-58802-46	CS35	73	76								
880-58802-47	CS36	74	78								
880-58802-48	CS39	78	82								

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-58802-49	CS40	75	78
880-58802-50	CS43	74	78
880-58802-51	CS54	77	79
880-58802-52	CS55	71	75
880-58802-52 MS	CS55	81	72
880-58802-52 MSD	CS55	67 S1-	74
880-58802-53	CS56	77	81
880-58802-54	CS57	69 S1-	70
880-58802-55	CS58	72	75
880-58802-56	CS59	71	75
880-58802-57	CS65	72	77
880-58802-58	CS67	72	75
880-58802-59	CS68	72	76
880-58802-60	CS69	71	76
880-58802-61	CS170	72	76
880-58802-62	CS178	74	76
880-58802-63	SW06	72	76
880-58802-64	SW08	126	122
880-58802-65	SW10	73	76
880-58802-66	SW11	76	81
880-58802-67	SW13	73	77
LCS 880-111283/2-A	Lab Control Sample	109	101
LCS 880-111324/2-A	Lab Control Sample	99	107
LCS 880-111325/2-A	Lab Control Sample	120	110
LCS 880-111328/2-A	Lab Control Sample	85	97
LCS 880-111384/2-A	Lab Control Sample	127	112
LCS 880-111501/2-A	Lab Control Sample	87	90
LCSD 880-111283/3-A	Lab Control Sample Dup	118	132 S1+
LCSD 880-111324/3-A	Lab Control Sample Dup	98	106
LCSD 880-111325/3-A	Lab Control Sample Dup	104	96
LCSD 880-111328/3-A	Lab Control Sample Dup	106	99
LCSD 880-111384/3-A	Lab Control Sample Dup	104	112
LCSD 880-111501/3-A	Lab Control Sample Dup	90	92
MB 880-111283/1-A	Method Blank	66 S1-	69 S1-
MB 880-111324/1-A	Method Blank	128	133 S1+
MB 880-111325/1-A	Method Blank	77	83
MB 880-111328/1-A	Method Blank	79	78
MB 880-111384/1-A	Method Blank	77	77
MB 880-111501/1-A	Method Blank	128	122

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111293/5-A
Matrix: Solid
Analysis Batch: 111281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111293

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/25 09:56	06/02/25 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 09:56*	*06/02/25 11:52*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*06/02/25 09:56*	*06/02/25 11:52*	*1*

Lab Sample ID: LCS 880-111293/1-A
Matrix: Solid
Analysis Batch: 111281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111293

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1031		mg/Kg		103	70 - 130		
Toluene			0.100	0.09661		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1015		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2043		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.1040		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: LCSD 880-111293/2-A
Matrix: Solid
Analysis Batch: 111281

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111293

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09476		mg/Kg		95	70 - 130	8	35
Toluene			0.100	0.08655		mg/Kg		87	70 - 130	11	35
Ethylbenzene			0.100	0.08976		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.1770		mg/Kg		88	70 - 130	14	35
o-Xylene			0.100	0.09130		mg/Kg		91	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: 880-58802-1 MS
Matrix: Solid
Analysis Batch: 111281

Client Sample ID: CS10
Prep Type: Total/NA
Prep Batch: 111293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09453		mg/Kg		95	70 - 130		
Toluene	<0.00200	U	0.100	0.08539		mg/Kg		85	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-58802-1 MS — **Client Sample ID: CS10**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111281 — **Prep Batch: 111293**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08870		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1751		mg/Kg		88	70 - 130
o-Xylene	<0.00200	U	0.100	0.08979		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*

Lab Sample ID: 880-58802-1 MSD — **Client Sample ID: CS10**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111281 — **Prep Batch: 111293**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09491		mg/Kg		95	70 - 130	0	35
Toluene	<0.00200	U	0.100	0.08604		mg/Kg		86	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.08840		mg/Kg		88	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1746		mg/Kg		87	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.08952		mg/Kg		90	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: MB 880-111295/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111288 — **Prep Batch: 111295**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/25 09:58	06/02/25 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*06/02/25 09:58*	*06/02/25 12:49*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:58*	*06/02/25 12:49*	*1*

Lab Sample ID: LCS 880-111295/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111288 — **Prep Batch: 111295**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1033		mg/Kg		103	70 - 130
Toluene	0.100	0.1039		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1063		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.1758		mg/Kg		88	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-111295/1-A
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111295

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1105		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-111295/2-A
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111295

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1043		mg/Kg		104	70 - 130	1	35
Toluene			0.100	0.1075		mg/Kg		108	70 - 130	3	35
Ethylbenzene			0.100	0.1070		mg/Kg		107	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1901		mg/Kg		95	70 - 130	8	35
o-Xylene			0.100	0.1231		mg/Kg		123	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-58802-21 MS
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: CS70
Prep Type: Total/NA
Prep Batch: 111295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08392		mg/Kg		84	70 - 130		
Toluene	<0.00200	U	0.100	0.09020		mg/Kg		90	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08495		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1666		mg/Kg		83	70 - 130		
o-Xylene	<0.00200	U	0.100	0.09187		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-58802-21 MSD
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: CS70
Prep Type: Total/NA
Prep Batch: 111295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1033		mg/Kg		103	70 - 130	21	35
Toluene	<0.00200	U	0.100	0.09122		mg/Kg		91	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1072		mg/Kg		107	70 - 130	23	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1955		mg/Kg		98	70 - 130	16	35
o-Xylene	<0.00200	U	0.100	0.1075		mg/Kg		108	70 - 130	16	35

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-58802-21 MSD
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: CS70
Prep Type: Total/NA
Prep Batch: 111295

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-111296/5-A
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111296

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/25 09:59	06/02/25 18:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	06/02/25 09:59	06/02/25 18:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/02/25 09:59	06/02/25 18:12	1

Lab Sample ID: LCS 880-111296/1-A
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111296

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1045		mg/Kg		104	70 - 130		
Toluene			0.100	0.09969		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.1055		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2057		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.09859		mg/Kg		99	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-111296/2-A
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111296

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1080		mg/Kg		108	70 - 130	3	35
Toluene			0.100	0.09764		mg/Kg		98	70 - 130	2	35
Ethylbenzene			0.100	0.1108		mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2124		mg/Kg		106	70 - 130	3	35
o-Xylene			0.100	0.1024		mg/Kg		102	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-111296/2-A
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111296

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-58802-41 MS
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: CS26
Prep Type: Total/NA
Prep Batch: 111296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08236		mg/Kg		82	70 - 130
Toluene	<0.00200	U	0.100	0.07616		mg/Kg		76	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.07898		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1480		mg/Kg		74	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.07177		mg/Kg		72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-58802-41 MSD
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: CS26
Prep Type: Total/NA
Prep Batch: 111296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07814		mg/Kg		78	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.07462		mg/Kg		75	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.07362		mg/Kg		74	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1374	F1	mg/Kg		69	70 - 130	7	35
o-Xylene	<0.00200	U F1	0.100	0.06616	F1	mg/Kg		66	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-111298/5-A
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111298

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/25 10:03	06/03/25 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	06/02/25 10:03	06/03/25 11:11	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/02/25 10:03	06/03/25 11:11	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-111298/1-A
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111298

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1098		mg/Kg		110	70 - 130		
Toluene			0.100	0.1007		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.1074		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.2155		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.1068		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-111298/2-A
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111298

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1118		mg/Kg		112	70 - 130	2	35
Toluene			0.100	0.1047		mg/Kg		105	70 - 130	4	35
Ethylbenzene			0.100	0.1098		mg/Kg		110	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2196		mg/Kg		110	70 - 130	2	35
o-Xylene			0.100	0.1096		mg/Kg		110	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 880-58802-61 MS
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: CS170
Prep Type: Total/NA
Prep Batch: 111298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08600		mg/Kg		86	70 - 130		
Toluene	<0.00200	U	0.100	0.07440		mg/Kg		74	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.07625		mg/Kg		76	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1484		mg/Kg		74	70 - 130		
o-Xylene	<0.00200	U	0.100	0.07554		mg/Kg		76	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-58802-61 MSD
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: CS170
Prep Type: Total/NA
Prep Batch: 111298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08584		mg/Kg		86	70 - 130	0	35
Toluene	<0.00200	U	0.100	0.07345		mg/Kg		73	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.07497		mg/Kg		75	70 - 130	2	35

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-58802-61 MSD — **Client Sample ID: CS170**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111355 — **Prep Batch: 111298**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1478		mg/Kg		74	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.07578		mg/Kg		76	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-111283/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111332 — **Prep Batch: 111283**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 08:21	06/02/25 22:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 08:21	06/02/25 22:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 08:21	06/02/25 22:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*06/02/25 08:21*	*06/02/25 22:33*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*06/02/25 08:21*	*06/02/25 22:33*	*1*

Lab Sample ID: LCS 880-111283/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111332 — **Prep Batch: 111283**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	834.3		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	886.8		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: LCSD 880-111283/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111332 — **Prep Batch: 111283**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1154	*1	mg/Kg		115	70 - 130	32	20
Diesel Range Organics (Over C10-C28)			1000	1271	*1	mg/Kg		127	70 - 130	36	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-111283/3-A
Matrix: Solid
Analysis Batch: 111332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111283

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*132*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-111324/1-A
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111324

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/02/25 22:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/02/25 22:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/02/25 22:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*06/02/25 10:46*	*06/02/25 22:49*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*06/02/25 10:46*	*06/02/25 22:49*	*1*

Lab Sample ID: LCS 880-111324/2-A
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111324

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	889.4		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1024		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-111324/3-A
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111324

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	893.6		mg/Kg		89	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	988.9		mg/Kg		99	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-58802-12 MS
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: CS45
Prep Type: Total/NA
Prep Batch: 111324

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	807.7		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	856.8		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*68*	*S1-*	*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: 880-58802-12 MSD
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: CS45
Prep Type: Total/NA
Prep Batch: 111324

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	794.1		mg/Kg		79	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	850.4		mg/Kg		85	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*69*	*S1-*	*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: MB 880-111325/1-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111325

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 00:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 00:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*06/02/25 10:53*	*06/04/25 00:12*	*1*
o-Terphenyl	*83*		*70 - 130*	*06/02/25 10:53*	*06/04/25 00:12*	*1*

Lab Sample ID: LCS 880-111325/2-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111325

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	900.6		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)			1000	974.9		mg/Kg		97	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-111325/2-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111325

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-111325/3-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111325

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	872.3		mg/Kg		87	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	833.8		mg/Kg		83	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-58802-32 MS
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS84
Prep Type: Total/NA
Prep Batch: 111325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	806.7		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	798.2		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: 880-58802-32 MSD
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS84
Prep Type: Total/NA
Prep Batch: 111325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	817.7		mg/Kg		80	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	855.5		mg/Kg		85	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	74		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-111328/1-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111328

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 06:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 06:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 06:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*06/02/25 11:00*	*06/03/25 06:20*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 11:00*	*06/03/25 06:20*	*1*

Lab Sample ID: LCS 880-111328/2-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111328

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	846.3		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1066		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-111328/3-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111328

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	893.7		mg/Kg		89	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 880-58802-52 MS
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS55
Prep Type: Total/NA
Prep Batch: 111328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	814.2		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	999	813.1		mg/Kg		80	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-58802-52 MS
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS55
Prep Type: Total/NA
Prep Batch: 111328

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 880-58802-52 MSD
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS55
Prep Type: Total/NA
Prep Batch: 111328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	797.4		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.7	U	999	879.1		mg/Kg		86	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	67	S1-	70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: MB 880-111384/1-A
Matrix: Solid
Analysis Batch: 111420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111384

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 00:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 00:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	06/03/25 10:55	06/04/25 00:12	1
o-Terphenyl	77		70 - 130	06/03/25 10:55	06/04/25 00:12	1

Lab Sample ID: LCS 880-111384/2-A
Matrix: Solid
Analysis Batch: 111420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111384

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	958.5		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	112		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-111384/3-A
Matrix: Solid
Analysis Batch: 111420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111384

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	943.9		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1061		mg/Kg		106	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: MB 880-111501/1-A
Matrix: Solid
Analysis Batch: 111564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111501

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 04:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 04:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 04:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*06/04/25 12:24*	*06/05/25 04:09*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/04/25 12:24*	*06/05/25 04:09*	*1*

Lab Sample ID: LCS 880-111501/2-A
Matrix: Solid
Analysis Batch: 111564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	811.2		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	875.0		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-111501/3-A
Matrix: Solid
Analysis Batch: 111564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111501

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	831.5		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	906.0		mg/Kg		91	70 - 130	3	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-111501/3-A
Matrix: Solid
Analysis Batch: 111564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111501

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	92		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111290/1-A
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/02/25 11:57	1

Lab Sample ID: LCS 880-111290/2-A
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.9		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-111290/3-A
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.9		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-58802-1 MS
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: CS10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	343	F1	251	624.8	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-58802-1 MSD
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: CS10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	343	F1	251	626.4	F1	mg/Kg		113	90 - 110	0	20

Lab Sample ID: 880-58802-11 MS
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: CS44
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	80.2	F1	251	424.1	F1	mg/Kg		137	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-58802-11 MSD
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: CS44
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.2	F1	251	424.2	F1	mg/Kg		137	90 - 110	0	20

Lab Sample ID: MB 880-111291/1-A
Matrix: Solid
Analysis Batch: 111337

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/02/25 15:57	1

Lab Sample ID: LCS 880-111291/2-A
Matrix: Solid
Analysis Batch: 111337

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.7		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-111291/3-A
Matrix: Solid
Analysis Batch: 111337

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-58802-19 MS
Matrix: Solid
Analysis Batch: 111337

Client Sample ID: CS52
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	273		248	540.9		mg/Kg		108	90 - 110		

Lab Sample ID: 880-58802-19 MSD
Matrix: Solid
Analysis Batch: 111337

Client Sample ID: CS52
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	273		248	538.8		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-58802-29 MS
Matrix: Solid
Analysis Batch: 111337

Client Sample ID: CS81
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	130	F1	249	441.0	F1	mg/Kg		125	90 - 110		

Lab Sample ID: 880-58802-29 MSD
Matrix: Solid
Analysis Batch: 111337

Client Sample ID: CS81
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	130	F1	249	442.0	F1	mg/Kg		125	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111292/1-A
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/02/25 16:05	1

Lab Sample ID: LCS 880-111292/2-A
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-111292/3-A
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.3		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-58802-39 MS
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: CS167
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	71.2	F1	251	386.5	F1	mg/Kg		126	90 - 110		

Lab Sample ID: 880-58802-39 MSD
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: CS167
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	71.2	F1	251	389.7	F1	mg/Kg		127	90 - 110	1	20

Lab Sample ID: 880-58802-49 MS
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: CS40
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	80.2	F1	251	409.9	F1	mg/Kg		132	90 - 110		

Lab Sample ID: 880-58802-49 MSD
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: CS40
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.2	F1	251	409.3	F1	mg/Kg		131	90 - 110	0	20

Lab Sample ID: MB 880-111294/1-A
Matrix: Solid
Analysis Batch: 111383

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/03/25 11:24	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-111294/2-A
Matrix: Solid
Analysis Batch: 111383

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.8		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-111294/3-A
Matrix: Solid
Analysis Batch: 111383

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.8		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-111711/1-A
Matrix: Solid
Analysis Batch: 111721

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/07/25 12:54	1

Lab Sample ID: LCS 880-111711/2-A
Matrix: Solid
Analysis Batch: 111721

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.3		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-111711/3-A
Matrix: Solid
Analysis Batch: 111721

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-111800/1-A
Matrix: Solid
Analysis Batch: 111803

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/09/25 16:55	1

Lab Sample ID: LCS 880-111800/2-A
Matrix: Solid
Analysis Batch: 111803

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-111800/3-A
Matrix: Solid
Analysis Batch: 111803

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.7		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA

Analysis Batch: 111281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	8021B	111293
880-58802-2	CS11	Total/NA	Solid	8021B	111293
880-58802-3	CS13	Total/NA	Solid	8021B	111293
880-58802-4	CS16	Total/NA	Solid	8021B	111293
880-58802-5	CS19	Total/NA	Solid	8021B	111293
880-58802-6	CS21	Total/NA	Solid	8021B	111293
880-58802-7	CS22	Total/NA	Solid	8021B	111293
880-58802-8	CS23	Total/NA	Solid	8021B	111293
880-58802-9	CS24	Total/NA	Solid	8021B	111293
880-58802-10	CS25	Total/NA	Solid	8021B	111293
880-58802-11	CS44	Total/NA	Solid	8021B	111293
880-58802-12	CS45	Total/NA	Solid	8021B	111293
880-58802-13	CS46	Total/NA	Solid	8021B	111293
880-58802-14	CS47	Total/NA	Solid	8021B	111293
880-58802-15	CS48	Total/NA	Solid	8021B	111293
880-58802-16	CS49	Total/NA	Solid	8021B	111293
880-58802-17	CS50	Total/NA	Solid	8021B	111293
880-58802-18	CS51	Total/NA	Solid	8021B	111293
880-58802-19	CS52	Total/NA	Solid	8021B	111293
880-58802-20	CS53	Total/NA	Solid	8021B	111293
MB 880-111293/5-A	Method Blank	Total/NA	Solid	8021B	111293
LCS 880-111293/1-A	Lab Control Sample	Total/NA	Solid	8021B	111293
LCSD 880-111293/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111293
880-58802-1 MS	CS10	Total/NA	Solid	8021B	111293
880-58802-1 MSD	CS10	Total/NA	Solid	8021B	111293

Analysis Batch: 111288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-21	CS70	Total/NA	Solid	8021B	111295
880-58802-22	CS71	Total/NA	Solid	8021B	111295
880-58802-23	CS72	Total/NA	Solid	8021B	111295
880-58802-24	CS73	Total/NA	Solid	8021B	111295
880-58802-25	CS74	Total/NA	Solid	8021B	111295
880-58802-26	CS75	Total/NA	Solid	8021B	111295
880-58802-27	CS76	Total/NA	Solid	8021B	111295
880-58802-28	CS77	Total/NA	Solid	8021B	111295
880-58802-29	CS81	Total/NA	Solid	8021B	111295
880-58802-30	CS82	Total/NA	Solid	8021B	111295
880-58802-31	CS83	Total/NA	Solid	8021B	111295
880-58802-32	CS84	Total/NA	Solid	8021B	111295
880-58802-33	CS139	Total/NA	Solid	8021B	111295
880-58802-34	CS140	Total/NA	Solid	8021B	111295
880-58802-35	CS145	Total/NA	Solid	8021B	111295
880-58802-36	CS146	Total/NA	Solid	8021B	111295
880-58802-37	CS150	Total/NA	Solid	8021B	111295
880-58802-38	CS151	Total/NA	Solid	8021B	111295
880-58802-39	CS167	Total/NA	Solid	8021B	111295
880-58802-40	CS168	Total/NA	Solid	8021B	111295
MB 880-111295/5-A	Method Blank	Total/NA	Solid	8021B	111295
LCS 880-111295/1-A	Lab Control Sample	Total/NA	Solid	8021B	111295
LCSD 880-111295/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111295

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 111288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-21 MS	CS70	Total/NA	Solid	8021B	111295
880-58802-21 MSD	CS70	Total/NA	Solid	8021B	111295

Prep Batch: 111293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	5035	
880-58802-2	CS11	Total/NA	Solid	5035	
880-58802-3	CS13	Total/NA	Solid	5035	
880-58802-4	CS16	Total/NA	Solid	5035	
880-58802-5	CS19	Total/NA	Solid	5035	
880-58802-6	CS21	Total/NA	Solid	5035	
880-58802-7	CS22	Total/NA	Solid	5035	
880-58802-8	CS23	Total/NA	Solid	5035	
880-58802-9	CS24	Total/NA	Solid	5035	
880-58802-10	CS25	Total/NA	Solid	5035	
880-58802-11	CS44	Total/NA	Solid	5035	
880-58802-12	CS45	Total/NA	Solid	5035	
880-58802-13	CS46	Total/NA	Solid	5035	
880-58802-14	CS47	Total/NA	Solid	5035	
880-58802-15	CS48	Total/NA	Solid	5035	
880-58802-16	CS49	Total/NA	Solid	5035	
880-58802-17	CS50	Total/NA	Solid	5035	
880-58802-18	CS51	Total/NA	Solid	5035	
880-58802-19	CS52	Total/NA	Solid	5035	
880-58802-20	CS53	Total/NA	Solid	5035	
MB 880-111293/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111293/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111293/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58802-1 MS	CS10	Total/NA	Solid	5035	
880-58802-1 MSD	CS10	Total/NA	Solid	5035	

Prep Batch: 111295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-21	CS70	Total/NA	Solid	5035	
880-58802-22	CS71	Total/NA	Solid	5035	
880-58802-23	CS72	Total/NA	Solid	5035	
880-58802-24	CS73	Total/NA	Solid	5035	
880-58802-25	CS74	Total/NA	Solid	5035	
880-58802-26	CS75	Total/NA	Solid	5035	
880-58802-27	CS76	Total/NA	Solid	5035	
880-58802-28	CS77	Total/NA	Solid	5035	
880-58802-29	CS81	Total/NA	Solid	5035	
880-58802-30	CS82	Total/NA	Solid	5035	
880-58802-31	CS83	Total/NA	Solid	5035	
880-58802-32	CS84	Total/NA	Solid	5035	
880-58802-33	CS139	Total/NA	Solid	5035	
880-58802-34	CS140	Total/NA	Solid	5035	
880-58802-35	CS145	Total/NA	Solid	5035	
880-58802-36	CS146	Total/NA	Solid	5035	
880-58802-37	CS150	Total/NA	Solid	5035	
880-58802-38	CS151	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 111295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-39	CS167	Total/NA	Solid	5035	
880-58802-40	CS168	Total/NA	Solid	5035	
MB 880-111295/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111295/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111295/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58802-21 MS	CS70	Total/NA	Solid	5035	
880-58802-21 MSD	CS70	Total/NA	Solid	5035	

Prep Batch: 111296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-41	CS26	Total/NA	Solid	5035	
880-58802-42	CS27	Total/NA	Solid	5035	
880-58802-43	CS29	Total/NA	Solid	5035	
880-58802-44	CS31	Total/NA	Solid	5035	
880-58802-45	CS32	Total/NA	Solid	5035	
880-58802-46	CS35	Total/NA	Solid	5035	
880-58802-47	CS36	Total/NA	Solid	5035	
880-58802-48	CS39	Total/NA	Solid	5035	
880-58802-49	CS40	Total/NA	Solid	5035	
880-58802-50	CS43	Total/NA	Solid	5035	
880-58802-51	CS54	Total/NA	Solid	5035	
880-58802-52	CS55	Total/NA	Solid	5035	
880-58802-53	CS56	Total/NA	Solid	5035	
880-58802-54	CS57	Total/NA	Solid	5035	
880-58802-55	CS58	Total/NA	Solid	5035	
880-58802-56	CS59	Total/NA	Solid	5035	
880-58802-57	CS65	Total/NA	Solid	5035	
880-58802-58	CS67	Total/NA	Solid	5035	
880-58802-59	CS68	Total/NA	Solid	5035	
880-58802-60	CS69	Total/NA	Solid	5035	
MB 880-111296/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111296/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111296/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58802-41 MS	CS26	Total/NA	Solid	5035	
880-58802-41 MSD	CS26	Total/NA	Solid	5035	

Prep Batch: 111298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-61	CS170	Total/NA	Solid	5035	
880-58802-62	CS178	Total/NA	Solid	5035	
880-58802-63	SW06	Total/NA	Solid	5035	
880-58802-64	SW08	Total/NA	Solid	5035	
880-58802-65	SW10	Total/NA	Solid	5035	
880-58802-66	SW11	Total/NA	Solid	5035	
880-58802-67	SW13	Total/NA	Solid	5035	
MB 880-111298/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111298/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111298/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58802-61 MS	CS170	Total/NA	Solid	5035	
880-58802-61 MSD	CS170	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA

Analysis Batch: 111341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-41	CS26	Total/NA	Solid	8021B	111296
880-58802-42	CS27	Total/NA	Solid	8021B	111296
880-58802-43	CS29	Total/NA	Solid	8021B	111296
880-58802-44	CS31	Total/NA	Solid	8021B	111296
880-58802-45	CS32	Total/NA	Solid	8021B	111296
880-58802-46	CS35	Total/NA	Solid	8021B	111296
880-58802-47	CS36	Total/NA	Solid	8021B	111296
880-58802-48	CS39	Total/NA	Solid	8021B	111296
880-58802-49	CS40	Total/NA	Solid	8021B	111296
880-58802-50	CS43	Total/NA	Solid	8021B	111296
880-58802-51	CS54	Total/NA	Solid	8021B	111296
880-58802-52	CS55	Total/NA	Solid	8021B	111296
880-58802-53	CS56	Total/NA	Solid	8021B	111296
880-58802-54	CS57	Total/NA	Solid	8021B	111296
880-58802-55	CS58	Total/NA	Solid	8021B	111296
880-58802-56	CS59	Total/NA	Solid	8021B	111296
880-58802-57	CS65	Total/NA	Solid	8021B	111296
880-58802-58	CS67	Total/NA	Solid	8021B	111296
880-58802-59	CS68	Total/NA	Solid	8021B	111296
880-58802-60	CS69	Total/NA	Solid	8021B	111296
MB 880-111296/5-A	Method Blank	Total/NA	Solid	8021B	111296
LCS 880-111296/1-A	Lab Control Sample	Total/NA	Solid	8021B	111296
LCSD 880-111296/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111296
880-58802-41 MS	CS26	Total/NA	Solid	8021B	111296
880-58802-41 MSD	CS26	Total/NA	Solid	8021B	111296

Analysis Batch: 111351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	Total BTEX	
880-58802-2	CS11	Total/NA	Solid	Total BTEX	
880-58802-3	CS13	Total/NA	Solid	Total BTEX	
880-58802-4	CS16	Total/NA	Solid	Total BTEX	
880-58802-5	CS19	Total/NA	Solid	Total BTEX	
880-58802-6	CS21	Total/NA	Solid	Total BTEX	
880-58802-7	CS22	Total/NA	Solid	Total BTEX	
880-58802-8	CS23	Total/NA	Solid	Total BTEX	
880-58802-9	CS24	Total/NA	Solid	Total BTEX	
880-58802-10	CS25	Total/NA	Solid	Total BTEX	
880-58802-11	CS44	Total/NA	Solid	Total BTEX	
880-58802-12	CS45	Total/NA	Solid	Total BTEX	
880-58802-13	CS46	Total/NA	Solid	Total BTEX	
880-58802-14	CS47	Total/NA	Solid	Total BTEX	
880-58802-15	CS48	Total/NA	Solid	Total BTEX	
880-58802-16	CS49	Total/NA	Solid	Total BTEX	
880-58802-17	CS50	Total/NA	Solid	Total BTEX	
880-58802-18	CS51	Total/NA	Solid	Total BTEX	
880-58802-19	CS52	Total/NA	Solid	Total BTEX	
880-58802-20	CS53	Total/NA	Solid	Total BTEX	
880-58802-21	CS70	Total/NA	Solid	Total BTEX	
880-58802-22	CS71	Total/NA	Solid	Total BTEX	
880-58802-23	CS72	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 111351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-24	CS73	Total/NA	Solid	Total BTEX	
880-58802-25	CS74	Total/NA	Solid	Total BTEX	
880-58802-26	CS75	Total/NA	Solid	Total BTEX	
880-58802-27	CS76	Total/NA	Solid	Total BTEX	
880-58802-28	CS77	Total/NA	Solid	Total BTEX	
880-58802-29	CS81	Total/NA	Solid	Total BTEX	
880-58802-30	CS82	Total/NA	Solid	Total BTEX	
880-58802-31	CS83	Total/NA	Solid	Total BTEX	
880-58802-32	CS84	Total/NA	Solid	Total BTEX	
880-58802-33	CS139	Total/NA	Solid	Total BTEX	
880-58802-34	CS140	Total/NA	Solid	Total BTEX	
880-58802-35	CS145	Total/NA	Solid	Total BTEX	
880-58802-36	CS146	Total/NA	Solid	Total BTEX	
880-58802-37	CS150	Total/NA	Solid	Total BTEX	
880-58802-38	CS151	Total/NA	Solid	Total BTEX	
880-58802-39	CS167	Total/NA	Solid	Total BTEX	
880-58802-40	CS168	Total/NA	Solid	Total BTEX	
880-58802-41	CS26	Total/NA	Solid	Total BTEX	
880-58802-42	CS27	Total/NA	Solid	Total BTEX	
880-58802-43	CS29	Total/NA	Solid	Total BTEX	
880-58802-44	CS31	Total/NA	Solid	Total BTEX	
880-58802-45	CS32	Total/NA	Solid	Total BTEX	
880-58802-46	CS35	Total/NA	Solid	Total BTEX	
880-58802-47	CS36	Total/NA	Solid	Total BTEX	
880-58802-48	CS39	Total/NA	Solid	Total BTEX	
880-58802-49	CS40	Total/NA	Solid	Total BTEX	
880-58802-50	CS43	Total/NA	Solid	Total BTEX	
880-58802-51	CS54	Total/NA	Solid	Total BTEX	
880-58802-52	CS55	Total/NA	Solid	Total BTEX	
880-58802-53	CS56	Total/NA	Solid	Total BTEX	
880-58802-54	CS57	Total/NA	Solid	Total BTEX	
880-58802-55	CS58	Total/NA	Solid	Total BTEX	
880-58802-56	CS59	Total/NA	Solid	Total BTEX	
880-58802-57	CS65	Total/NA	Solid	Total BTEX	
880-58802-58	CS67	Total/NA	Solid	Total BTEX	
880-58802-59	CS68	Total/NA	Solid	Total BTEX	
880-58802-60	CS69	Total/NA	Solid	Total BTEX	
880-58802-61	CS170	Total/NA	Solid	Total BTEX	
880-58802-62	CS178	Total/NA	Solid	Total BTEX	
880-58802-63	SW06	Total/NA	Solid	Total BTEX	
880-58802-64	SW08	Total/NA	Solid	Total BTEX	
880-58802-65	SW10	Total/NA	Solid	Total BTEX	
880-58802-66	SW11	Total/NA	Solid	Total BTEX	
880-58802-67	SW13	Total/NA	Solid	Total BTEX	

Analysis Batch: 111355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-61	CS170	Total/NA	Solid	8021B	111298
880-58802-62	CS178	Total/NA	Solid	8021B	111298
880-58802-63	SW06	Total/NA	Solid	8021B	111298
880-58802-64	SW08	Total/NA	Solid	8021B	111298

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 111355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-65	SW10	Total/NA	Solid	8021B	111298
880-58802-66	SW11	Total/NA	Solid	8021B	111298
880-58802-67	SW13	Total/NA	Solid	8021B	111298
MB 880-111298/5-A	Method Blank	Total/NA	Solid	8021B	111298
LCS 880-111298/1-A	Lab Control Sample	Total/NA	Solid	8021B	111298
LCSD 880-111298/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111298
880-58802-61 MS	CS170	Total/NA	Solid	8021B	111298
880-58802-61 MSD	CS170	Total/NA	Solid	8021B	111298

GC Semi VOA

Prep Batch: 111283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	8015NM Prep	
880-58802-2	CS11	Total/NA	Solid	8015NM Prep	
880-58802-3	CS13	Total/NA	Solid	8015NM Prep	
880-58802-4	CS16	Total/NA	Solid	8015NM Prep	
880-58802-5	CS19	Total/NA	Solid	8015NM Prep	
880-58802-6	CS21	Total/NA	Solid	8015NM Prep	
880-58802-7	CS22	Total/NA	Solid	8015NM Prep	
880-58802-8	CS23	Total/NA	Solid	8015NM Prep	
880-58802-9	CS24	Total/NA	Solid	8015NM Prep	
880-58802-10	CS25	Total/NA	Solid	8015NM Prep	
880-58802-11	CS44	Total/NA	Solid	8015NM Prep	
MB 880-111283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 111324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-13	CS46	Total/NA	Solid	8015NM Prep	
880-58802-14	CS47	Total/NA	Solid	8015NM Prep	
880-58802-15	CS48	Total/NA	Solid	8015NM Prep	
880-58802-16	CS49	Total/NA	Solid	8015NM Prep	
880-58802-17	CS50	Total/NA	Solid	8015NM Prep	
880-58802-18	CS51	Total/NA	Solid	8015NM Prep	
880-58802-19	CS52	Total/NA	Solid	8015NM Prep	
880-58802-20	CS53	Total/NA	Solid	8015NM Prep	
880-58802-21	CS70	Total/NA	Solid	8015NM Prep	
880-58802-23	CS72	Total/NA	Solid	8015NM Prep	
880-58802-24	CS73	Total/NA	Solid	8015NM Prep	
880-58802-25	CS74	Total/NA	Solid	8015NM Prep	
880-58802-26	CS75	Total/NA	Solid	8015NM Prep	
880-58802-29	CS81	Total/NA	Solid	8015NM Prep	
880-58802-30	CS82	Total/NA	Solid	8015NM Prep	
880-58802-31	CS83	Total/NA	Solid	8015NM Prep	
MB 880-111324/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111324/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58802-12 MS	CS45	Total/NA	Solid	8015NM Prep	
880-58802-12 MSD	CS45	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 111325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-32	CS84	Total/NA	Solid	8015NM Prep	
880-58802-33	CS139	Total/NA	Solid	8015NM Prep	
880-58802-34	CS140	Total/NA	Solid	8015NM Prep	
880-58802-35	CS145	Total/NA	Solid	8015NM Prep	
880-58802-36	CS146	Total/NA	Solid	8015NM Prep	
880-58802-37	CS150	Total/NA	Solid	8015NM Prep	
880-58802-38	CS151	Total/NA	Solid	8015NM Prep	
880-58802-39	CS167	Total/NA	Solid	8015NM Prep	
880-58802-40	CS168	Total/NA	Solid	8015NM Prep	
880-58802-41	CS26	Total/NA	Solid	8015NM Prep	
880-58802-42	CS27	Total/NA	Solid	8015NM Prep	
880-58802-43	CS29	Total/NA	Solid	8015NM Prep	
880-58802-44	CS31	Total/NA	Solid	8015NM Prep	
880-58802-45	CS32	Total/NA	Solid	8015NM Prep	
880-58802-46	CS35	Total/NA	Solid	8015NM Prep	
880-58802-47	CS36	Total/NA	Solid	8015NM Prep	
880-58802-48	CS39	Total/NA	Solid	8015NM Prep	
880-58802-49	CS40	Total/NA	Solid	8015NM Prep	
880-58802-50	CS43	Total/NA	Solid	8015NM Prep	
880-58802-51	CS54	Total/NA	Solid	8015NM Prep	
MB 880-111325/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111325/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58802-32 MS	CS84	Total/NA	Solid	8015NM Prep	
880-58802-32 MSD	CS84	Total/NA	Solid	8015NM Prep	

Prep Batch: 111328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-52	CS55	Total/NA	Solid	8015NM Prep	
880-58802-53	CS56	Total/NA	Solid	8015NM Prep	
880-58802-54	CS57	Total/NA	Solid	8015NM Prep	
880-58802-55	CS58	Total/NA	Solid	8015NM Prep	
880-58802-56	CS59	Total/NA	Solid	8015NM Prep	
880-58802-57	CS65	Total/NA	Solid	8015NM Prep	
880-58802-58	CS67	Total/NA	Solid	8015NM Prep	
880-58802-59	CS68	Total/NA	Solid	8015NM Prep	
880-58802-60	CS69	Total/NA	Solid	8015NM Prep	
880-58802-61	CS170	Total/NA	Solid	8015NM Prep	
880-58802-62	CS178	Total/NA	Solid	8015NM Prep	
880-58802-63	SW06	Total/NA	Solid	8015NM Prep	
880-58802-65	SW10	Total/NA	Solid	8015NM Prep	
880-58802-66	SW11	Total/NA	Solid	8015NM Prep	
880-58802-67	SW13	Total/NA	Solid	8015NM Prep	
MB 880-111328/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111328/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111328/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58802-52 MS	CS55	Total/NA	Solid	8015NM Prep	
880-58802-52 MSD	CS55	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 111332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	8015B NM	111283
880-58802-2	CS11	Total/NA	Solid	8015B NM	111283
880-58802-3	CS13	Total/NA	Solid	8015B NM	111283
880-58802-4	CS16	Total/NA	Solid	8015B NM	111283
880-58802-5	CS19	Total/NA	Solid	8015B NM	111283
880-58802-6	CS21	Total/NA	Solid	8015B NM	111283
880-58802-7	CS22	Total/NA	Solid	8015B NM	111283
880-58802-8	CS23	Total/NA	Solid	8015B NM	111283
880-58802-9	CS24	Total/NA	Solid	8015B NM	111283
880-58802-10	CS25	Total/NA	Solid	8015B NM	111283
880-58802-11	CS44	Total/NA	Solid	8015B NM	111283
MB 880-111283/1-A	Method Blank	Total/NA	Solid	8015B NM	111283
LCS 880-111283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111283
LCSD 880-111283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111283

Analysis Batch: 111334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-13	CS46	Total/NA	Solid	8015B NM	111324
880-58802-14	CS47	Total/NA	Solid	8015B NM	111324
880-58802-15	CS48	Total/NA	Solid	8015B NM	111324
880-58802-16	CS49	Total/NA	Solid	8015B NM	111324
880-58802-17	CS50	Total/NA	Solid	8015B NM	111324
880-58802-18	CS51	Total/NA	Solid	8015B NM	111324
880-58802-19	CS52	Total/NA	Solid	8015B NM	111324
880-58802-20	CS53	Total/NA	Solid	8015B NM	111324
880-58802-21	CS70	Total/NA	Solid	8015B NM	111324
880-58802-23	CS72	Total/NA	Solid	8015B NM	111324
880-58802-24	CS73	Total/NA	Solid	8015B NM	111324
880-58802-25	CS74	Total/NA	Solid	8015B NM	111324
880-58802-26	CS75	Total/NA	Solid	8015B NM	111324
880-58802-29	CS81	Total/NA	Solid	8015B NM	111324
880-58802-30	CS82	Total/NA	Solid	8015B NM	111324
880-58802-31	CS83	Total/NA	Solid	8015B NM	111324
MB 880-111324/1-A	Method Blank	Total/NA	Solid	8015B NM	111324
LCS 880-111324/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111324
LCSD 880-111324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111324
880-58802-12 MS	CS45	Total/NA	Solid	8015B NM	111324
880-58802-12 MSD	CS45	Total/NA	Solid	8015B NM	111324

Prep Batch: 111384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-12	CS45	Total/NA	Solid	8015NM Prep	
880-58802-22	CS71	Total/NA	Solid	8015NM Prep	
880-58802-27	CS76	Total/NA	Solid	8015NM Prep	
880-58802-28	CS77	Total/NA	Solid	8015NM Prep	
MB 880-111384/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111384/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111384/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 111417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	8015 NM	
880-58802-2	CS11	Total/NA	Solid	8015 NM	
880-58802-3	CS13	Total/NA	Solid	8015 NM	
880-58802-4	CS16	Total/NA	Solid	8015 NM	
880-58802-5	CS19	Total/NA	Solid	8015 NM	
880-58802-6	CS21	Total/NA	Solid	8015 NM	
880-58802-7	CS22	Total/NA	Solid	8015 NM	
880-58802-8	CS23	Total/NA	Solid	8015 NM	
880-58802-9	CS24	Total/NA	Solid	8015 NM	
880-58802-10	CS25	Total/NA	Solid	8015 NM	
880-58802-11	CS44	Total/NA	Solid	8015 NM	
880-58802-12	CS45	Total/NA	Solid	8015 NM	
880-58802-13	CS46	Total/NA	Solid	8015 NM	
880-58802-14	CS47	Total/NA	Solid	8015 NM	
880-58802-15	CS48	Total/NA	Solid	8015 NM	
880-58802-16	CS49	Total/NA	Solid	8015 NM	
880-58802-17	CS50	Total/NA	Solid	8015 NM	
880-58802-18	CS51	Total/NA	Solid	8015 NM	
880-58802-19	CS52	Total/NA	Solid	8015 NM	
880-58802-20	CS53	Total/NA	Solid	8015 NM	
880-58802-21	CS70	Total/NA	Solid	8015 NM	
880-58802-22	CS71	Total/NA	Solid	8015 NM	
880-58802-23	CS72	Total/NA	Solid	8015 NM	
880-58802-24	CS73	Total/NA	Solid	8015 NM	
880-58802-25	CS74	Total/NA	Solid	8015 NM	
880-58802-26	CS75	Total/NA	Solid	8015 NM	
880-58802-27	CS76	Total/NA	Solid	8015 NM	
880-58802-28	CS77	Total/NA	Solid	8015 NM	
880-58802-29	CS81	Total/NA	Solid	8015 NM	
880-58802-30	CS82	Total/NA	Solid	8015 NM	
880-58802-31	CS83	Total/NA	Solid	8015 NM	
880-58802-32	CS84	Total/NA	Solid	8015 NM	
880-58802-33	CS139	Total/NA	Solid	8015 NM	
880-58802-34	CS140	Total/NA	Solid	8015 NM	
880-58802-35	CS145	Total/NA	Solid	8015 NM	
880-58802-36	CS146	Total/NA	Solid	8015 NM	
880-58802-37	CS150	Total/NA	Solid	8015 NM	
880-58802-38	CS151	Total/NA	Solid	8015 NM	
880-58802-39	CS167	Total/NA	Solid	8015 NM	
880-58802-40	CS168	Total/NA	Solid	8015 NM	
880-58802-41	CS26	Total/NA	Solid	8015 NM	
880-58802-42	CS27	Total/NA	Solid	8015 NM	
880-58802-43	CS29	Total/NA	Solid	8015 NM	
880-58802-44	CS31	Total/NA	Solid	8015 NM	
880-58802-45	CS32	Total/NA	Solid	8015 NM	
880-58802-46	CS35	Total/NA	Solid	8015 NM	
880-58802-47	CS36	Total/NA	Solid	8015 NM	
880-58802-48	CS39	Total/NA	Solid	8015 NM	
880-58802-49	CS40	Total/NA	Solid	8015 NM	
880-58802-50	CS43	Total/NA	Solid	8015 NM	
880-58802-51	CS54	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 111417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-52	CS55	Total/NA	Solid	8015 NM	
880-58802-53	CS56	Total/NA	Solid	8015 NM	
880-58802-54	CS57	Total/NA	Solid	8015 NM	
880-58802-55	CS58	Total/NA	Solid	8015 NM	
880-58802-56	CS59	Total/NA	Solid	8015 NM	
880-58802-57	CS65	Total/NA	Solid	8015 NM	
880-58802-58	CS67	Total/NA	Solid	8015 NM	
880-58802-59	CS68	Total/NA	Solid	8015 NM	
880-58802-60	CS69	Total/NA	Solid	8015 NM	
880-58802-61	CS170	Total/NA	Solid	8015 NM	
880-58802-62	CS178	Total/NA	Solid	8015 NM	
880-58802-63	SW06	Total/NA	Solid	8015 NM	
880-58802-64	SW08	Total/NA	Solid	8015 NM	
880-58802-65	SW10	Total/NA	Solid	8015 NM	
880-58802-66	SW11	Total/NA	Solid	8015 NM	
880-58802-67	SW13	Total/NA	Solid	8015 NM	

Analysis Batch: 111418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-32	CS84	Total/NA	Solid	8015B NM	111325
880-58802-33	CS139	Total/NA	Solid	8015B NM	111325
880-58802-34	CS140	Total/NA	Solid	8015B NM	111325
880-58802-35	CS145	Total/NA	Solid	8015B NM	111325
880-58802-36	CS146	Total/NA	Solid	8015B NM	111325
880-58802-37	CS150	Total/NA	Solid	8015B NM	111325
880-58802-38	CS151	Total/NA	Solid	8015B NM	111325
880-58802-39	CS167	Total/NA	Solid	8015B NM	111325
880-58802-40	CS168	Total/NA	Solid	8015B NM	111325
880-58802-41	CS26	Total/NA	Solid	8015B NM	111325
880-58802-42	CS27	Total/NA	Solid	8015B NM	111325
880-58802-43	CS29	Total/NA	Solid	8015B NM	111325
880-58802-44	CS31	Total/NA	Solid	8015B NM	111325
880-58802-45	CS32	Total/NA	Solid	8015B NM	111325
880-58802-46	CS35	Total/NA	Solid	8015B NM	111325
880-58802-47	CS36	Total/NA	Solid	8015B NM	111325
880-58802-48	CS39	Total/NA	Solid	8015B NM	111325
880-58802-49	CS40	Total/NA	Solid	8015B NM	111325
880-58802-50	CS43	Total/NA	Solid	8015B NM	111325
880-58802-51	CS54	Total/NA	Solid	8015B NM	111325
880-58802-52	CS55	Total/NA	Solid	8015B NM	111328
880-58802-53	CS56	Total/NA	Solid	8015B NM	111328
880-58802-54	CS57	Total/NA	Solid	8015B NM	111328
880-58802-55	CS58	Total/NA	Solid	8015B NM	111328
880-58802-56	CS59	Total/NA	Solid	8015B NM	111328
880-58802-57	CS65	Total/NA	Solid	8015B NM	111328
880-58802-58	CS67	Total/NA	Solid	8015B NM	111328
880-58802-59	CS68	Total/NA	Solid	8015B NM	111328
880-58802-60	CS69	Total/NA	Solid	8015B NM	111328
880-58802-61	CS170	Total/NA	Solid	8015B NM	111328
880-58802-62	CS178	Total/NA	Solid	8015B NM	111328
880-58802-63	SW06	Total/NA	Solid	8015B NM	111328

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 111418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-65	SW10	Total/NA	Solid	8015B NM	111328
880-58802-66	SW11	Total/NA	Solid	8015B NM	111328
880-58802-67	SW13	Total/NA	Solid	8015B NM	111328
MB 880-111325/1-A	Method Blank	Total/NA	Solid	8015B NM	111325
MB 880-111328/1-A	Method Blank	Total/NA	Solid	8015B NM	111328
LCS 880-111325/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111325
LCS 880-111328/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111328
LCSD 880-111325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111325
LCSD 880-111328/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111328
880-58802-32 MS	CS84	Total/NA	Solid	8015B NM	111325
880-58802-32 MSD	CS84	Total/NA	Solid	8015B NM	111325
880-58802-52 MS	CS55	Total/NA	Solid	8015B NM	111328
880-58802-52 MSD	CS55	Total/NA	Solid	8015B NM	111328

Analysis Batch: 111420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-12	CS45	Total/NA	Solid	8015B NM	111384
880-58802-22	CS71	Total/NA	Solid	8015B NM	111384
880-58802-27	CS76	Total/NA	Solid	8015B NM	111384
880-58802-28	CS77	Total/NA	Solid	8015B NM	111384
MB 880-111384/1-A	Method Blank	Total/NA	Solid	8015B NM	111384
LCS 880-111384/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111384
LCSD 880-111384/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111384

Prep Batch: 111501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-64	SW08	Total/NA	Solid	8015NM Prep	
MB 880-111501/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111501/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-64	SW08	Total/NA	Solid	8015B NM	111501
MB 880-111501/1-A	Method Blank	Total/NA	Solid	8015B NM	111501
LCS 880-111501/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111501
LCSD 880-111501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111501

HPLC/IC

Leach Batch: 111290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Soluble	Solid	DI Leach	
880-58802-2	CS11	Soluble	Solid	DI Leach	
880-58802-3	CS13	Soluble	Solid	DI Leach	
880-58802-5	CS19	Soluble	Solid	DI Leach	
880-58802-6	CS21	Soluble	Solid	DI Leach	
880-58802-7	CS22	Soluble	Solid	DI Leach	
880-58802-8	CS23	Soluble	Solid	DI Leach	
880-58802-9	CS24	Soluble	Solid	DI Leach	
880-58802-10	CS25	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 111290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-11	CS44	Soluble	Solid	DI Leach	
880-58802-12	CS45	Soluble	Solid	DI Leach	
880-58802-13	CS46	Soluble	Solid	DI Leach	
880-58802-14	CS47	Soluble	Solid	DI Leach	
880-58802-15	CS48	Soluble	Solid	DI Leach	
880-58802-16	CS49	Soluble	Solid	DI Leach	
880-58802-17	CS50	Soluble	Solid	DI Leach	
880-58802-18	CS51	Soluble	Solid	DI Leach	
MB 880-111290/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111290/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111290/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58802-1 MS	CS10	Soluble	Solid	DI Leach	
880-58802-1 MSD	CS10	Soluble	Solid	DI Leach	
880-58802-11 MS	CS44	Soluble	Solid	DI Leach	
880-58802-11 MSD	CS44	Soluble	Solid	DI Leach	

Leach Batch: 111291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-19	CS52	Soluble	Solid	DI Leach	
880-58802-20	CS53	Soluble	Solid	DI Leach	
880-58802-21	CS70	Soluble	Solid	DI Leach	
880-58802-22	CS71	Soluble	Solid	DI Leach	
880-58802-23	CS72	Soluble	Solid	DI Leach	
880-58802-24	CS73	Soluble	Solid	DI Leach	
880-58802-25	CS74	Soluble	Solid	DI Leach	
880-58802-26	CS75	Soluble	Solid	DI Leach	
880-58802-27	CS76	Soluble	Solid	DI Leach	
880-58802-28	CS77	Soluble	Solid	DI Leach	
880-58802-29	CS81	Soluble	Solid	DI Leach	
880-58802-30	CS82	Soluble	Solid	DI Leach	
880-58802-31	CS83	Soluble	Solid	DI Leach	
880-58802-32	CS84	Soluble	Solid	DI Leach	
880-58802-33	CS139	Soluble	Solid	DI Leach	
880-58802-34	CS140	Soluble	Solid	DI Leach	
880-58802-35	CS145	Soluble	Solid	DI Leach	
880-58802-36	CS146	Soluble	Solid	DI Leach	
880-58802-37	CS150	Soluble	Solid	DI Leach	
880-58802-38	CS151	Soluble	Solid	DI Leach	
MB 880-111291/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111291/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111291/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58802-19 MS	CS52	Soluble	Solid	DI Leach	
880-58802-19 MSD	CS52	Soluble	Solid	DI Leach	
880-58802-29 MS	CS81	Soluble	Solid	DI Leach	
880-58802-29 MSD	CS81	Soluble	Solid	DI Leach	

Leach Batch: 111292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-39	CS167	Soluble	Solid	DI Leach	
880-58802-40	CS168	Soluble	Solid	DI Leach	
880-58802-41	CS26	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 111292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-42	CS27	Soluble	Solid	DI Leach	
880-58802-43	CS29	Soluble	Solid	DI Leach	
880-58802-44	CS31	Soluble	Solid	DI Leach	
880-58802-45	CS32	Soluble	Solid	DI Leach	
880-58802-46	CS35	Soluble	Solid	DI Leach	
880-58802-47	CS36	Soluble	Solid	DI Leach	
880-58802-48	CS39	Soluble	Solid	DI Leach	
880-58802-49	CS40	Soluble	Solid	DI Leach	
880-58802-50	CS43	Soluble	Solid	DI Leach	
880-58802-51	CS54	Soluble	Solid	DI Leach	
880-58802-52	CS55	Soluble	Solid	DI Leach	
880-58802-53	CS56	Soluble	Solid	DI Leach	
880-58802-54	CS57	Soluble	Solid	DI Leach	
880-58802-55	CS58	Soluble	Solid	DI Leach	
880-58802-56	CS59	Soluble	Solid	DI Leach	
880-58802-57	CS65	Soluble	Solid	DI Leach	
880-58802-58	CS67	Soluble	Solid	DI Leach	
MB 880-111292/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111292/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111292/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58802-39 MS	CS167	Soluble	Solid	DI Leach	
880-58802-39 MSD	CS167	Soluble	Solid	DI Leach	
880-58802-49 MS	CS40	Soluble	Solid	DI Leach	
880-58802-49 MSD	CS40	Soluble	Solid	DI Leach	

Leach Batch: 111294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-59	CS68	Soluble	Solid	DI Leach	
880-58802-60	CS69	Soluble	Solid	DI Leach	
880-58802-61	CS170	Soluble	Solid	DI Leach	
880-58802-62	CS178	Soluble	Solid	DI Leach	
880-58802-63	SW06	Soluble	Solid	DI Leach	
880-58802-64	SW08	Soluble	Solid	DI Leach	
880-58802-65	SW10	Soluble	Solid	DI Leach	
880-58802-66	SW11	Soluble	Solid	DI Leach	
880-58802-67	SW13	Soluble	Solid	DI Leach	
MB 880-111294/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111294/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111294/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 111336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Soluble	Solid	300.0	111290
880-58802-2	CS11	Soluble	Solid	300.0	111290
880-58802-3	CS13	Soluble	Solid	300.0	111290
880-58802-5	CS19	Soluble	Solid	300.0	111290
880-58802-6	CS21	Soluble	Solid	300.0	111290
880-58802-7	CS22	Soluble	Solid	300.0	111290
880-58802-8	CS23	Soluble	Solid	300.0	111290
880-58802-9	CS24	Soluble	Solid	300.0	111290
880-58802-10	CS25	Soluble	Solid	300.0	111290

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 111336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-11	CS44	Soluble	Solid	300.0	111290
880-58802-12	CS45	Soluble	Solid	300.0	111290
880-58802-13	CS46	Soluble	Solid	300.0	111290
880-58802-14	CS47	Soluble	Solid	300.0	111290
880-58802-15	CS48	Soluble	Solid	300.0	111290
880-58802-16	CS49	Soluble	Solid	300.0	111290
880-58802-17	CS50	Soluble	Solid	300.0	111290
880-58802-18	CS51	Soluble	Solid	300.0	111290
MB 880-111290/1-A	Method Blank	Soluble	Solid	300.0	111290
LCS 880-111290/2-A	Lab Control Sample	Soluble	Solid	300.0	111290
LCSD 880-111290/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111290
880-58802-1 MS	CS10	Soluble	Solid	300.0	111290
880-58802-1 MSD	CS10	Soluble	Solid	300.0	111290
880-58802-11 MS	CS44	Soluble	Solid	300.0	111290
880-58802-11 MSD	CS44	Soluble	Solid	300.0	111290

Analysis Batch: 111337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-19	CS52	Soluble	Solid	300.0	111291
880-58802-20	CS53	Soluble	Solid	300.0	111291
880-58802-21	CS70	Soluble	Solid	300.0	111291
880-58802-22	CS71	Soluble	Solid	300.0	111291
880-58802-23	CS72	Soluble	Solid	300.0	111291
880-58802-24	CS73	Soluble	Solid	300.0	111291
880-58802-25	CS74	Soluble	Solid	300.0	111291
880-58802-26	CS75	Soluble	Solid	300.0	111291
880-58802-27	CS76	Soluble	Solid	300.0	111291
880-58802-28	CS77	Soluble	Solid	300.0	111291
880-58802-29	CS81	Soluble	Solid	300.0	111291
880-58802-30	CS82	Soluble	Solid	300.0	111291
880-58802-31	CS83	Soluble	Solid	300.0	111291
880-58802-32	CS84	Soluble	Solid	300.0	111291
880-58802-33	CS139	Soluble	Solid	300.0	111291
880-58802-34	CS140	Soluble	Solid	300.0	111291
880-58802-35	CS145	Soluble	Solid	300.0	111291
880-58802-36	CS146	Soluble	Solid	300.0	111291
880-58802-37	CS150	Soluble	Solid	300.0	111291
880-58802-38	CS151	Soluble	Solid	300.0	111291
MB 880-111291/1-A	Method Blank	Soluble	Solid	300.0	111291
LCS 880-111291/2-A	Lab Control Sample	Soluble	Solid	300.0	111291
LCSD 880-111291/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111291
880-58802-19 MS	CS52	Soluble	Solid	300.0	111291
880-58802-19 MSD	CS52	Soluble	Solid	300.0	111291
880-58802-29 MS	CS81	Soluble	Solid	300.0	111291
880-58802-29 MSD	CS81	Soluble	Solid	300.0	111291

Analysis Batch: 111339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-39	CS167	Soluble	Solid	300.0	111292
880-58802-40	CS168	Soluble	Solid	300.0	111292
880-58802-41	CS26	Soluble	Solid	300.0	111292

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 111339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-42	CS27	Soluble	Solid	300.0	111292
880-58802-43	CS29	Soluble	Solid	300.0	111292
880-58802-44	CS31	Soluble	Solid	300.0	111292
880-58802-45	CS32	Soluble	Solid	300.0	111292
880-58802-46	CS35	Soluble	Solid	300.0	111292
880-58802-47	CS36	Soluble	Solid	300.0	111292
880-58802-48	CS39	Soluble	Solid	300.0	111292
880-58802-49	CS40	Soluble	Solid	300.0	111292
880-58802-50	CS43	Soluble	Solid	300.0	111292
880-58802-51	CS54	Soluble	Solid	300.0	111292
880-58802-52	CS55	Soluble	Solid	300.0	111292
880-58802-53	CS56	Soluble	Solid	300.0	111292
880-58802-54	CS57	Soluble	Solid	300.0	111292
880-58802-55	CS58	Soluble	Solid	300.0	111292
880-58802-56	CS59	Soluble	Solid	300.0	111292
880-58802-57	CS65	Soluble	Solid	300.0	111292
880-58802-58	CS67	Soluble	Solid	300.0	111292
MB 880-111292/1-A	Method Blank	Soluble	Solid	300.0	111292
LCS 880-111292/2-A	Lab Control Sample	Soluble	Solid	300.0	111292
LCSD 880-111292/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111292
880-58802-39 MS	CS167	Soluble	Solid	300.0	111292
880-58802-39 MSD	CS167	Soluble	Solid	300.0	111292
880-58802-49 MS	CS40	Soluble	Solid	300.0	111292
880-58802-49 MSD	CS40	Soluble	Solid	300.0	111292

Analysis Batch: 111383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-59	CS68	Soluble	Solid	300.0	111294
880-58802-60	CS69	Soluble	Solid	300.0	111294
880-58802-61	CS170	Soluble	Solid	300.0	111294
880-58802-62	CS178	Soluble	Solid	300.0	111294
880-58802-63	SW06	Soluble	Solid	300.0	111294
880-58802-64	SW08	Soluble	Solid	300.0	111294
880-58802-65	SW10	Soluble	Solid	300.0	111294
880-58802-66	SW11	Soluble	Solid	300.0	111294
880-58802-67	SW13	Soluble	Solid	300.0	111294
MB 880-111294/1-A	Method Blank	Soluble	Solid	300.0	111294
LCS 880-111294/2-A	Lab Control Sample	Soluble	Solid	300.0	111294
LCSD 880-111294/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111294

Leach Batch: 111711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-111711/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111711/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111711/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 111721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-111711/1-A	Method Blank	Soluble	Solid	300.0	111711
LCS 880-111711/2-A	Lab Control Sample	Soluble	Solid	300.0	111711
LCSD 880-111711/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111711

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC

Leach Batch: 111800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-4	CS16	Soluble	Solid	DI Leach	
MB 880-111800/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111800/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111800/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 111803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-4	CS16	Soluble	Solid	300.0	111800
MB 880-111800/1-A	Method Blank	Soluble	Solid	300.0	111800
LCS 880-111800/2-A	Lab Control Sample	Soluble	Solid	300.0	111800
LCSD 880-111800/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111800

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS10
Date Collected: 05/30/25 09:00
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 12:14
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 12:14
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 02:34
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 02:34
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 12:18

Client Sample ID: CS11
Date Collected: 05/30/25 09:02
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 12:34
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 12:34
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:06
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 03:06
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 12:39

Client Sample ID: CS13
Date Collected: 05/30/25 09:04
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 12:55
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 12:55
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:21
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 03:21
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 12:46

Client Sample ID: CS16
Date Collected: 05/30/25 09:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 13:15
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:15

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS16
Date Collected: 05/30/25 09:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:38
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 03:38
Soluble	Leach	DI Leach			111800	SMC	EET MID	06/09/25 12:52
Soluble	Analysis	300.0		1	111803	SMC	EET MID	06/09/25 17:44

Client Sample ID: CS19
Date Collected: 05/30/25 09:08
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 13:36
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:36
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:54
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 03:54
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:01

Client Sample ID: CS21
Date Collected: 05/30/25 09:10
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 13:56
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:56
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:10
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 04:10
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:22

Client Sample ID: CS22
Date Collected: 05/30/25 09:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 14:17
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:17
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:26
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 04:26

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS22
Date Collected: 05/30/25 09:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:29

Client Sample ID: CS23
Date Collected: 05/30/25 09:14
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 14:37
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:37
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:42
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 04:42
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:36

Client Sample ID: CS24
Date Collected: 05/30/25 09:16
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 14:58
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:58
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:59
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 04:59
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:43

Client Sample ID: CS25
Date Collected: 05/30/25 09:18
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 15:19
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 15:19
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 05:15
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 05:15
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:50

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS44
Date Collected: 05/30/25 09:40
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 16:53
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 16:53
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 05:32
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 05:32
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:57

Client Sample ID: CS45
Date Collected: 05/30/25 09:42
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 17:14
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 17:14
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:31
Total/NA	Prep	8015NM Prep			111384	FC	EET MID	06/03/25 10:55
Total/NA	Analysis	8015B NM		1	111420	TKC	EET MID	06/04/25 05:31
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 14:19

Client Sample ID: CS46
Date Collected: 05/30/25 09:44
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 17:34
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 17:34
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 00:26
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 00:26
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 14:26

Client Sample ID: CS47
Date Collected: 05/30/25 09:46
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 17:55
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 17:55

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Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS47
Date Collected: 05/30/25 09:46
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 00:41
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 00:41
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 14:47

Client Sample ID: CS48
Date Collected: 05/30/25 09:48
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 18:15
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:15
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 00:58
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 00:58
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 14:54

Client Sample ID: CS49
Date Collected: 05/30/25 09:50
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 18:36
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:36
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 01:13
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 01:13
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 15:01

Client Sample ID: CS50
Date Collected: 05/30/25 09:52
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 18:56
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:56
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 01:30
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 01:30

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS50
Date Collected: 05/30/25 09:52
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 15:08

Client Sample ID: CS51
Date Collected: 05/30/25 09:54
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 19:17
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:17
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 01:46
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 01:46
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 15:15

Client Sample ID: CS52
Date Collected: 05/30/25 09:56
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 19:37
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:37
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 02:02
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 02:02
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 16:19

Client Sample ID: CS53
Date Collected: 05/30/25 09:58
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 19:58
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:58
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 02:18
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 02:18
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 16:41

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS70
Date Collected: 05/30/25 10:20
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 13:18
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:18
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 02:34
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 02:34
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 16:48

Client Sample ID: CS71
Date Collected: 05/30/25 10:22
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 13:38
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:38
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:46
Total/NA	Prep	8015NM Prep			111384	FC	EET MID	06/03/25 10:55
Total/NA	Analysis	8015B NM		1	111420	TKC	EET MID	06/04/25 05:46
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 16:55

Client Sample ID: CS72
Date Collected: 05/30/25 10:24
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 13:59
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:59
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:21
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 03:21
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:03

Client Sample ID: CS73
Date Collected: 05/30/25 10:26
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 14:19
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:19

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS73
Date Collected: 05/30/25 10:26
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:38
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 03:38
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:25

Client Sample ID: CS74
Date Collected: 05/30/25 10:28
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 14:40
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:40
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:54
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 03:54
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:32

Client Sample ID: CS75
Date Collected: 05/30/25 10:30
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 15:00
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 15:00
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:10
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 04:10
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:39

Client Sample ID: CS76
Date Collected: 05/30/25 10:32
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 15:21
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 15:21
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:03
Total/NA	Prep	8015NM Prep			111384	FC	EET MID	06/03/25 10:55
Total/NA	Analysis	8015B NM		1	111420	TKC	EET MID	06/04/25 06:03

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS76
Date Collected: 05/30/25 10:32
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:47

Client Sample ID: CS77
Date Collected: 05/30/25 10:34
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 15:41
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 15:41
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:19
Total/NA	Prep	8015NM Prep			111384	FC	EET MID	06/03/25 10:55
Total/NA	Analysis	8015B NM		1	111420	TKC	EET MID	06/04/25 06:19
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:54

Client Sample ID: CS81
Date Collected: 05/30/25 10:36
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 16:02
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 16:02
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:59
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 04:59
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 18:01

Client Sample ID: CS82
Date Collected: 05/30/25 10:38
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 16:22
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 16:22
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 05:15
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 05:15
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 18:23

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS83
Date Collected: 05/30/25 10:40
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 18:13
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:13
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 05:32
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 05:32
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 18:30

Client Sample ID: CS84
Date Collected: 05/30/25 10:42
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 18:33
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:33
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 01:00
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 01:00
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 18:52

Client Sample ID: CS139
Date Collected: 05/30/25 10:44
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 18:54
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:54
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 01:48
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 01:48
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:00

Client Sample ID: CS140
Date Collected: 05/30/25 10:46
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 19:14
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:14

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Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS140
Date Collected: 05/30/25 10:46
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 02:05
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 02:05
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:07

Client Sample ID: CS145
Date Collected: 05/30/25 10:48
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 19:35
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:35
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 02:20
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 02:20
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:14

Client Sample ID: CS146
Date Collected: 05/30/25 10:50
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 19:55
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:55
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 02:37
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 02:37
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:22

Client Sample ID: CS150
Date Collected: 05/30/25 10:52
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 20:15
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:15
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 02:52
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 02:52

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS150
Date Collected: 05/30/25 10:52
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:29

Client Sample ID: CS151
Date Collected: 05/30/25 10:54
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 20:36
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:36
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 03:08
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 03:08
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:36

Client Sample ID: CS167
Date Collected: 05/30/25 10:56
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 20:56
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:56
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 03:24
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 03:24
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 16:26

Client Sample ID: CS168
Date Collected: 05/30/25 10:58
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 21:17
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 21:17
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 03:40
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 03:40
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 16:47

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS26
Date Collected: 05/30/25 09:20
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 18:34
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:34
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 03:55
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 03:55
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 16:55

Client Sample ID: CS27
Date Collected: 05/30/25 09:22
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 18:54
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:54
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 04:26
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 04:26
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:02

Client Sample ID: CS29
Date Collected: 05/30/25 09:24
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 19:15
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:15
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 04:43
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 04:43
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:09

Client Sample ID: CS31
Date Collected: 05/30/25 09:26
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 19:35
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:35

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS31
Date Collected: 05/30/25 09:26
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 04:59
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 04:59
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:30

Client Sample ID: CS32
Date Collected: 05/30/25 09:28
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 19:56
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:56
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:14
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 05:14
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:37

Client Sample ID: CS35
Date Collected: 05/30/25 09:30
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 20:16
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:16
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:31
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 05:31
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:44

Client Sample ID: CS36
Date Collected: 05/30/25 09:32
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 20:37
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:37
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:46
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 05:46

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS36
Date Collected: 05/30/25 09:32
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:51

Client Sample ID: CS39
Date Collected: 05/30/25 09:34
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 20:57
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:57
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:03
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 06:03
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:58

Client Sample ID: CS40
Date Collected: 05/30/25 09:36
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 21:18
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 21:18
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:19
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 06:19
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 18:05

Client Sample ID: CS43
Date Collected: 05/30/25 09:38
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 21:38
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 21:38
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:36
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 06:36
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 18:27

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS54
Date Collected: 05/30/25 10:00
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 23:02
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 23:02
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:51
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 06:51
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 18:34

Client Sample ID: CS55
Date Collected: 05/30/25 10:02
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 23:23
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 23:23
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 16:59
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 16:59
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 18:55

Client Sample ID: CS56
Date Collected: 05/30/25 10:04
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 23:43
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 23:43
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 17:47
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 17:47
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:02

Client Sample ID: CS57
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 00:04
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 00:04

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS57
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 18:03
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 18:03
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:09

Client Sample ID: CS58
Date Collected: 05/30/25 10:08
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 00:24
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 00:24
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 18:19
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 18:19
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:16

Client Sample ID: CS59
Date Collected: 05/30/25 10:10
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 00:45
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 00:45
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 18:35
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 18:35
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:23

Client Sample ID: CS65
Date Collected: 05/30/25 10:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 01:06
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 01:06
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 18:51
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 18:51

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS65
Date Collected: 05/30/25 10:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:30

Client Sample ID: CS67
Date Collected: 05/30/25 10:14
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 01:26
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 01:26
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 19:07
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 19:07
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:37

Client Sample ID: CS68
Date Collected: 05/30/25 10:16
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-59
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 01:47
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 01:47
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 19:23
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 19:23
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 12:46

Client Sample ID: CS69
Date Collected: 05/30/25 10:18
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 02:07
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 02:07
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 19:39
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 19:39
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 12:53

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS170
Date Collected: 05/30/25 11:00
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-61
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 11:32
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 11:32
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 19:55
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 19:55
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:00

Client Sample ID: CS178
Date Collected: 05/30/25 11:02
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-62
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 11:53
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 11:53
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 20:27
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 20:27
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:08

Client Sample ID: SW06
Date Collected: 05/30/25 11:04
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-63
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 12:13
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 12:13
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 20:43
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 20:43
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:42

Client Sample ID: SW08
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 12:34
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 12:34

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW08
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/05/25 10:37
Total/NA	Prep	8015NM Prep			111501	FC	EET MID	06/04/25 12:24
Total/NA	Analysis	8015B NM		1	111564	TKC	EET MID	06/05/25 10:37
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:49

Client Sample ID: SW10
Date Collected: 05/30/25 10:08
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-65
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 12:54
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 12:54
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 21:15
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 21:15
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:56

Client Sample ID: SW11
Date Collected: 05/30/25 11:10
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-66
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 13:14
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 13:14
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 21:32
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 21:32
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 14:03

Client Sample ID: SW13
Date Collected: 05/30/25 11:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-67
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 13:35
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 13:35
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 21:47
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 21:47

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW13

Date Collected: 05/30/25 11:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-67

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 14:10

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-58802-1	CS10	Solid	05/30/25 09:00	05/30/25 16:06	1'
880-58802-2	CS11	Solid	05/30/25 09:02	05/30/25 16:06	1'
880-58802-3	CS13	Solid	05/30/25 09:04	05/30/25 16:06	1.5'
880-58802-4	CS16	Solid	05/30/25 09:06	05/30/25 16:06	1'
880-58802-5	CS19	Solid	05/30/25 09:08	05/30/25 16:06	0.5'
880-58802-6	CS21	Solid	05/30/25 09:10	05/30/25 16:06	0.5'
880-58802-7	CS22	Solid	05/30/25 09:12	05/30/25 16:06	0.5'
880-58802-8	CS23	Solid	05/30/25 09:14	05/30/25 16:06	0.5'
880-58802-9	CS24	Solid	05/30/25 09:16	05/30/25 16:06	0.5'
880-58802-10	CS25	Solid	05/30/25 09:18	05/30/25 16:06	0.5'
880-58802-11	CS44	Solid	05/30/25 09:40	05/30/25 16:06	1'
880-58802-12	CS45	Solid	05/30/25 09:42	05/30/25 16:06	1'
880-58802-13	CS46	Solid	05/30/25 09:44	05/30/25 16:06	1'
880-58802-14	CS47	Solid	05/30/25 09:46	05/30/25 16:06	1'
880-58802-15	CS48	Solid	05/30/25 09:48	05/30/25 16:06	1'
880-58802-16	CS49	Solid	05/30/25 09:50	05/30/25 16:06	1'
880-58802-17	CS50	Solid	05/30/25 09:52	05/30/25 16:06	1'
880-58802-18	CS51	Solid	05/30/25 09:54	05/30/25 16:06	1'
880-58802-19	CS52	Solid	05/30/25 09:56	05/30/25 16:06	1'
880-58802-20	CS53	Solid	05/30/25 09:58	05/30/25 16:06	1'
880-58802-21	CS70	Solid	05/30/25 10:20	05/30/25 16:06	1'
880-58802-22	CS71	Solid	05/30/25 10:22	05/30/25 16:06	1'
880-58802-23	CS72	Solid	05/30/25 10:24	05/30/25 16:06	1'
880-58802-24	CS73	Solid	05/30/25 10:26	05/30/25 16:06	1'
880-58802-25	CS74	Solid	05/30/25 10:28	05/30/25 16:06	1'
880-58802-26	CS75	Solid	05/30/25 10:30	05/30/25 16:06	1'
880-58802-27	CS76	Solid	05/30/25 10:32	05/30/25 16:06	1'
880-58802-28	CS77	Solid	05/30/25 10:34	05/30/25 16:06	1'
880-58802-29	CS81	Solid	05/30/25 10:36	05/30/25 16:06	1'
880-58802-30	CS82	Solid	05/30/25 10:38	05/30/25 16:06	1'
880-58802-31	CS83	Solid	05/30/25 10:40	05/30/25 16:06	1'
880-58802-32	CS84	Solid	05/30/25 10:42	05/30/25 16:06	2'
880-58802-33	CS139	Solid	05/30/25 10:44	05/30/25 16:06	2'
880-58802-34	CS140	Solid	05/30/25 10:46	05/30/25 16:06	2'
880-58802-35	CS145	Solid	05/30/25 10:48	05/30/25 16:06	3'
880-58802-36	CS146	Solid	05/30/25 10:50	05/30/25 16:06	3'
880-58802-37	CS150	Solid	05/30/25 10:52	05/30/25 16:06	3'
880-58802-38	CS151	Solid	05/30/25 10:54	05/30/25 16:06	3.5'
880-58802-39	CS167	Solid	05/30/25 10:56	05/30/25 16:06	2'
880-58802-40	CS168	Solid	05/30/25 10:58	05/30/25 16:06	1.5'
880-58802-41	CS26	Solid	05/30/25 09:20	05/30/25 16:06	0.5'
880-58802-42	CS27	Solid	05/30/25 09:22	05/30/25 16:06	1'
880-58802-43	CS29	Solid	05/30/25 09:24	05/30/25 16:06	2'
880-58802-44	CS31	Solid	05/30/25 09:26	05/30/25 16:06	0.5'
880-58802-45	CS32	Solid	05/30/25 09:28	05/30/25 16:06	0.5'
880-58802-46	CS35	Solid	05/30/25 09:30	05/30/25 16:06	0.5'
880-58802-47	CS36	Solid	05/30/25 09:32	05/30/25 16:06	0.5'
880-58802-48	CS39	Solid	05/30/25 09:34	05/30/25 16:06	1'
880-58802-49	CS40	Solid	05/30/25 09:36	05/30/25 16:06	1'
880-58802-50	CS43	Solid	05/30/25 09:38	05/30/25 16:06	1'
880-58802-51	CS54	Solid	05/30/25 10:00	05/30/25 16:06	1'
880-58802-52	CS55	Solid	05/30/25 10:02	05/30/25 16:06	1'
880-58802-53	CS56	Solid	05/30/25 10:04	05/30/25 16:06	1'
880-58802-54	CS57	Solid	05/30/25 10:06	05/30/25 16:06	1'

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-58802-55	CS58	Solid	05/30/25 10:08	05/30/25 16:06	2'
880-58802-56	CS59	Solid	05/30/25 10:10	05/30/25 16:06	1'
880-58802-57	CS65	Solid	05/30/25 10:12	05/30/25 16:06	2'
880-58802-58	CS67	Solid	05/30/25 10:14	05/30/25 16:06	1'
880-58802-59	CS68	Solid	05/30/25 10:16	05/30/25 16:06	1'
880-58802-60	CS69	Solid	05/30/25 10:18	05/30/25 16:06	1'
880-58802-61	CS170	Solid	05/30/25 11:00	05/30/25 16:06	3'
880-58802-62	CS178	Solid	05/30/25 11:02	05/30/25 16:06	1'
880-58802-63	SW06	Solid	05/30/25 11:04	05/30/25 16:06	0-1'
880-58802-64	SW08	Solid	05/30/25 10:06	05/30/25 16:06	0-3'
880-58802-65	SW10	Solid	05/30/25 10:08	05/30/25 16:06	0-3'
880-58802-66	SW11	Solid	05/30/25 11:10	05/30/25 16:06	0-2'
880-58802-67	SW13	Solid	05/30/25 11:12	05/30/25 16:06	0-2'

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-58802 Chain of Custody

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Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, Tx, 79701	City, State ZIP:	
Phone:	4325578895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	TE LT		
PO #:	03D3836001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	0.6
Total Containers:		Corrected Temperature:	0.5

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS10			0900	1'	C	1		X	X	X	
CS11			0902	1'							
CS13			0904	1.5'							
CS16			0906	1'							
CS19			0908	0.5'							
CS21			0910	0.5'							
CS22			0912	0.5'							
CS23			0914	0.5'							
CS24			0916	0.5'							
CS25			0918	0.5'							

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

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1	1600	5/30/25	2		
3			4		
5			6		

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	hgreen@ensolum.com
Phone:	9325578895	Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Tank	Turn Around	
Project Number:	03D383600	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	TG / LT	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D383600		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS44	S	5/30/25	0940	1'	C	1		X	X	X	
CS45			0942	1'							
CS46			0944	1'							
CS47			0946	1'							
CS48			0948	1'							
CS49			0950	1'							
CS50			0952	1'							
CS51			0954	1'							
CS52			0956	1'							
CS53			0958	1'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1			2		
3			4		
5			6		

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Project Manager:	Hadlie Green	Bill to: (If different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	9325578895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D 3836001	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	TG/LF	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D 3836001		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS70	S	5/30/25	1020	1'	C	1		X	X	X	
CS71			1022	1'							
CS72			1024	1'							
CS73			1026	1'							
CS74			1028	1'							
CS75			1030	1'							
CS76			1032	1'							
CS77			1034	1'							
CS81			1036	1'							
CS82			1038	1'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	1006	5/30/25	2		
3			4		
5			6		

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Hadlie Green	Bill to: (If different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, TX, 79701	City, State ZIP:	
Phone:	4325778845	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland PNR Frac Line	Turn Around	
Project Number:	03D383600l	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	TG, LT	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D353600l		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS83	S	5/13/25	1040	1'	C	1		X	X	X	
CS84			1042	2'							
CS139			1044	2'							
CS140			1046	2'							
CS145			1048	3'							
CS146			1050	3'							
CS150			1052	3'							
CS151			1054	3.5'							
CS167			1056	2'							
CS168			1058	1.5'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	3255788845	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Liner	Turn Around	☑ Routine ☐ Rush
Project Number:	03D383600I	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	TG, LT		
PO #:	03D383600I		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS26	S	5/30/25	0920	0.5'	C	1		X	X	X	
CS27			0922	1'				X	X	X	
CS29			0924	2'				X	X	X	
CS31			0926	0.5'				X	X	X	
CS32			0928	0.5'				X	X	X	
CS35			0930	0.5				X	X	X	
CS36			0932	0.5'				X	X	X	
CS39			0934	1'				X	X	X	
CS40			0936	1'				X	X	X	
CS43			0938	1'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	1600	5/30/25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 6 of 7

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	9325548845	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	TG LT		
PO #:	03D3836001		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS54	S	5/30/25	1000	1'	C	1		X	X	X	
CS55			1002	1'				X	X	X	
CS56			1004	1'				X	X	X	
CS57			1006	1'				X	X	X	
CS58			1008	2'				X	X	X	
CS59			1010	~~2'~~ 1'				X	X	X	
CS65			1012	2'				X	X	X	
CS67			1014	1'				X	X	X	
CS68			1016	1'				X	X	X	
CS69			1018	1'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	1606	5/30/25	2		
3			4		
5			6		

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 7 of 7

Project Manager:	Hadlie Green	Bill to: (If different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St. Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	(432)557-8895	Email:	hgreen@ensolum.com/tguadian@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☐ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Leandra Tann/Tabitha	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D3836001		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX 8021	TPH 8015	Chlorides 300.0	Sample Comments
CS170	S	5/30/25	1100	3'	C	1	X	X	X	
CS178			1102	1'			X	X	X	
SW06			1104	0-1'			X	X	X	
SW08			1106	0-3'			X	X	X	
SW10			1108	0-3'			X	X	X	
SW11			1110	0-2'			X	X	X	
SW13			1112	0-2			X	X	X	

LT 05/30/25 NFE

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	1600	5/30/25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-58802-1
SDG Number: Eddy County

Login Number: 58802
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

FLATLAND FNR FRAC LINE
07A1988214

JOB NUMBER

890-8284-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

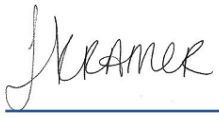
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
6/12/2025 3:58:50 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8284-1
SDG: 07A1988214

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Definitions/Glossary

Client: Ensolum Job ID: 890-8284-1
Project/Site: FLATLAND FNR FRAC LINE SDG: 07A1988214

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8284-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1 Eurofins Carlsbad

Job Narrative
890-8284-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/11/2025 12:25 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 5.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW 15 (890-8284-1), SW 17 (890-8284-2), SW 19 (890-8284-3), SW 20 (890-8284-4), SW 14 (890-8284-5), SW 16 (890-8284-6) and SW 18 (890-8284-7).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-112066 and analytical batch 880-112062 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.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 15

Date Collected: 06/11/25 09:49
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Lab Sample ID: 890-8284-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/12/25 08:41	06/12/25 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:35*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/12/25 11:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/12/25 11:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/11/25 16:02	06/12/25 11:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/11/25 16:02	06/12/25 11:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/11/25 16:02	06/12/25 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/11/25 16:02*	*06/12/25 11:36*	*1*
o-Terphenyl	*88*		*70 - 130*	*06/11/25 16:02*	*06/12/25 11:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**397**		9.98		mg/Kg			06/12/25 11:16	1

Client Sample ID: SW 17

Date Collected: 06/11/25 08:56
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Lab Sample ID: 890-8284-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/12/25 08:41	06/12/25 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 17

Lab Sample ID: 890-8284-2
Matrix: Solid
Date Collected: 06/11/25 08:56
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/12/25 11:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/12/25 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/11/25 16:02	06/12/25 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/11/25 16:02	06/12/25 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/11/25 16:02	06/12/25 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*85*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:25*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**137**		9.94	mg/Kg			06/12/25 11:38	1

Client Sample ID: SW 19

Lab Sample ID: 890-8284-3
Matrix: Solid
Date Collected: 06/11/25 09:05
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
Xylenes, Total	<0.00399	U F1	0.00399	mg/Kg		06/12/25 09:22	06/12/25 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/12/25 09:22*	*06/12/25 11:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/12/25 09:22*	*06/12/25 11:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/12/25 11:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/12/25 12:41	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 19

Date Collected: 06/11/25 09:05
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Lab Sample ID: 890-8284-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 12:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 12:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:41*	*1*
o-Terphenyl	*91*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**309**		9.92		mg/Kg			06/12/25 11:45	1

Client Sample ID: SW 20

Date Collected: 06/11/25 09:09
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Lab Sample ID: 890-8284-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/12/25 09:22	06/12/25 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/12/25 09:22*	*06/12/25 12:01*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/12/25 09:22*	*06/12/25 12:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/12/25 12:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/12/25 12:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/11/25 16:02	06/12/25 12:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/11/25 16:02	06/12/25 12:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/11/25 16:02	06/12/25 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:57*	*1*
o-Terphenyl	*93*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:57*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 20

Lab Sample ID: 890-8284-4
Matrix: Solid
Date Collected: 06/11/25 09:09
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.7		10.0		mg/Kg			06/12/25 12:06	1

Client Sample ID: SW 14

Lab Sample ID: 890-8284-5
Matrix: Solid
Date Collected: 06/11/25 10:08
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/12/25 09:23	06/12/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/12/25 09:23*	*06/12/25 11:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/12/25 09:23*	*06/12/25 11:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/12/25 11:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/12/25 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:25*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		9.94		mg/Kg			06/12/25 12:13	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 16

Date Collected: 06/11/25 10:10
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Lab Sample ID: 890-8284-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/12/25 09:23	06/12/25 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/12/25 09:23*	*06/12/25 12:07*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/12/25 09:23*	*06/12/25 12:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/12/25 12:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/12/25 12:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 12:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 12:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:41*	*1*
o-Terphenyl	*94*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		9.94		mg/Kg			06/12/25 12:20	1

Client Sample ID: SW 18

Date Collected: 06/11/25 10:45
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Lab Sample ID: 890-8284-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/12/25 09:24	06/12/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/12/25 09:24*	*06/12/25 11:46*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 18

Date Collected: 06/11/25 10:45
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Lab Sample ID: 890-8284-7

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/12/25 09:24*	*06/12/25 11:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/12/25 11:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/12/25 11:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 11:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 11:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/12/25 08:08*	*06/12/25 11:36*	*1*
o-Terphenyl	*87*		*70 - 130*	*06/12/25 08:08*	*06/12/25 11:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.9**		9.90		mg/Kg			06/12/25 12:27	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-8284-1	SW 15	99	94										
890-8284-1 MS	SW 15	93	90										
890-8284-1 MSD	SW 15	94	91										
890-8284-2	SW 17	100	95										
890-8284-3	SW 19	90	100										
890-8284-3 MS	SW 19	99	102										
890-8284-3 MSD	SW 19	91	102										
890-8284-4	SW 20	90	95										
890-8284-5	SW 14	101	100										
890-8284-5 MS	SW 14	107	92										
890-8284-5 MSD	SW 14	101	99										
890-8284-6	SW 16	98	99										
890-8284-7	SW 18	104	91										
890-8284-7 MS	SW 18	101	95										
890-8284-7 MSD	SW 18	95	98										
LCS 880-112065/1-A	Lab Control Sample	90	89										
LCS 880-112066/1-A	Lab Control Sample	111	97										
LCS 880-112067/1-A	Lab Control Sample	101	100										
LCS 880-112068/1-A	Lab Control Sample	97	97										
LCSD 880-112065/2-A	Lab Control Sample Dup	92	89										
LCSD 880-112066/2-A	Lab Control Sample Dup	103	88										
LCSD 880-112067/2-A	Lab Control Sample Dup	102	100										
LCSD 880-112068/2-A	Lab Control Sample Dup	97	97										
MB 880-112065/5-A	Method Blank	90	91										
MB 880-112066/5-A	Method Blank	81	87										
MB 880-112067/5-A	Method Blank	96	96										
MB 880-112068/5-A	Method Blank	93	85										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-8284-1	SW 15	85	88										
890-8284-1 MS	SW 15	86	94										
890-8284-1 MSD	SW 15	100	93										
890-8284-2	SW 17	85	89										
890-8284-3	SW 19	88	91										
890-8284-4	SW 20	89	93										
890-8284-5	SW 14	94	89										
890-8284-6	SW 16	97	94										
890-8284-7	SW 18	91	87										
890-8284-7 MS	SW 18	92	94										
890-8284-7 MSD	SW 18	91	92										
LCS 880-112031/2-A	Lab Control Sample	87	78										

Surrogate Summary

Client: Ensolum Job ID: 890-8284-1
Project/Site: FLATLAND FNR FRAC LINE SDG: 07A1988214

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
LCS 880-112058/2-A	Lab Control Sample	76	80								
LCSD 880-112031/3-A	Lab Control Sample Dup	87	79								
LCSD 880-112058/3-A	Lab Control Sample Dup	76	82								
MB 880-112031/1-A	Method Blank	72	75								
MB 880-112058/1-A	Method Blank	73	73								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-112065/5-A
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112065

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/12/25 08:41	06/12/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:14*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:14*	*1*

Lab Sample ID: LCS 880-112065/1-A
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112065

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1040		mg/Kg		104	70 - 130		
Toluene			0.100	0.09297		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.09910		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.2012		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1005		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-112065/2-A
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112065

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1082		mg/Kg		108	70 - 130	4	35
Toluene			0.100	0.09708		mg/Kg		97	70 - 130	4	35
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2116		mg/Kg		106	70 - 130	5	35
o-Xylene			0.100	0.1073		mg/Kg		107	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 890-8284-1 MS
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: SW 15
Prep Type: Total/NA
Prep Batch: 112065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1006		mg/Kg		101	70 - 130		
Toluene	<0.00200	U	0.100	0.09193		mg/Kg		92	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8284-1 MS
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: SW 15
Prep Type: Total/NA
Prep Batch: 112065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09488		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1925		mg/Kg		96	70 - 130
o-Xylene	<0.00200	U	0.100	0.09616		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-8284-1 MSD
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: SW 15
Prep Type: Total/NA
Prep Batch: 112065

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1019		mg/Kg		102	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.08740		mg/Kg		87	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.09212		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1890		mg/Kg		95	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.09368		mg/Kg		94	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-112066/5-A
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112066

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/12/25 09:22	06/12/25 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*06/12/25 09:22*	*06/12/25 11:19*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/12/25 09:22*	*06/12/25 11:19*	*1*

Lab Sample ID: LCS 880-112066/1-A
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112066

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08285		mg/Kg		83	70 - 130
Toluene	0.100	0.08242		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.1795		mg/Kg		90	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-112066/1-A
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112066

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09160		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-112066/2-A
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112066

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07435		mg/Kg		74	70 - 130	11	35
Toluene			0.100	0.08239		mg/Kg		82	70 - 130	0	35
Ethylbenzene			0.100	0.09384		mg/Kg		94	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.1633		mg/Kg		82	70 - 130	9	35
o-Xylene			0.100	0.08358		mg/Kg		84	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 890-8284-3 MS
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: SW 19
Prep Type: Total/NA
Prep Batch: 112066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.07244		mg/Kg		72	70 - 130		
Toluene	<0.00200	U	0.100	0.07431		mg/Kg		74	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.07766		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1367	F1	mg/Kg		68	70 - 130		
o-Xylene	<0.00200	U F1	0.100	0.06933	F1	mg/Kg		69	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-8284-3 MSD
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: SW 19
Prep Type: Total/NA
Prep Batch: 112066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09228		mg/Kg		92	70 - 130	24	35
Toluene	<0.00200	U	0.100	0.09002		mg/Kg		90	70 - 130	19	35
Ethylbenzene	<0.00200	U	0.100	0.08800		mg/Kg		88	70 - 130	12	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1595		mg/Kg		80	70 - 130	15	35
o-Xylene	<0.00200	U F1	0.100	0.07960		mg/Kg		80	70 - 130	14	35

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8284-3 MSD
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: SW 19
Prep Type: Total/NA
Prep Batch: 112066

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-112067/5-A
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112067

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/12/25 09:23	06/12/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/12/25 09:23	06/12/25 11:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/12/25 09:23	06/12/25 11:25	1

Lab Sample ID: LCS 880-112067/1-A
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112067

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08713		mg/Kg		87	70 - 130		
Toluene			0.100	0.07684		mg/Kg		77	70 - 130		
Ethylbenzene			0.100	0.08141		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene			0.200	0.1659		mg/Kg		83	70 - 130		
o-Xylene			0.100	0.08549		mg/Kg		85	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-112067/2-A
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112067

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08384		mg/Kg		84	70 - 130	4	35
Toluene			0.100	0.07374		mg/Kg		74	70 - 130	4	35
Ethylbenzene			0.100	0.07814		mg/Kg		78	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1591		mg/Kg		80	70 - 130	4	35
o-Xylene			0.100	0.08217		mg/Kg		82	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-112067/2-A
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112067

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-8284-5 MS
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: SW 14
Prep Type: Total/NA
Prep Batch: 112067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09970		mg/Kg		100	70 - 130
Toluene	<0.00200	U	0.100	0.09988		mg/Kg		100	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1142		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2309		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.100	0.1141		mg/Kg		114	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-8284-5 MSD
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: SW 14
Prep Type: Total/NA
Prep Batch: 112067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09097		mg/Kg		91	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.07902		mg/Kg		79	70 - 130	23	35
Ethylbenzene	<0.00200	U	0.100	0.08486		mg/Kg		85	70 - 130	30	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1717		mg/Kg		86	70 - 130	29	35
o-Xylene	<0.00200	U	0.100	0.08698		mg/Kg		87	70 - 130	27	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-112068/5-A
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112068

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/12/25 09:24	06/12/25 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/12/25 09:24	06/12/25 11:24	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/12/25 09:24	06/12/25 11:24	1

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-112068/1-A
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112068

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09875		mg/Kg		99	70 - 130		
Toluene			0.100	0.08980		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09383		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1973		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.09836		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-112068/2-A
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112068

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09660		mg/Kg		97	70 - 130	2	35
Toluene			0.100	0.08633		mg/Kg		86	70 - 130	4	35
Ethylbenzene			0.100	0.09010		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1879		mg/Kg		94	70 - 130	5	35
o-Xylene			0.100	0.09388		mg/Kg		94	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-8284-7 MS
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09818		mg/Kg		98	70 - 130		
Toluene	<0.00200	U	0.100	0.09257		mg/Kg		93	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09843		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2073		mg/Kg		104	70 - 130		
o-Xylene	<0.00200	U	0.100	0.1017		mg/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-8284-7 MSD
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1110		mg/Kg		111	70 - 130	12	35
Toluene	<0.00200	U	0.100	0.09633		mg/Kg		96	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.09948		mg/Kg		99	70 - 130	1	35

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8284-7 MSD
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2059		mg/Kg		103	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.1014		mg/Kg		101	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-112031/1-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112031

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 03:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 03:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/11/25 16:02*	*06/12/25 03:45*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/11/25 16:02*	*06/12/25 03:45*	*1*

Lab Sample ID: LCS 880-112031/2-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	806.5		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	799.0		mg/Kg		80	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: LCSD 880-112031/3-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112031

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	818.9		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	812.4		mg/Kg		81	70 - 130	2	20

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-112031/3-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112031

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-8284-1 MS
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: SW 15
Prep Type: Total/NA
Prep Batch: 112031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	747.2		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	801.3		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-8284-1 MSD
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: SW 15
Prep Type: Total/NA
Prep Batch: 112031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	744.9		mg/Kg		74	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	747.5		mg/Kg		75	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-112058/1-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112058

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 03:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 03:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	06/12/25 08:08	06/12/25 03:45	1
o-Terphenyl	73		70 - 130	06/12/25 08:08	06/12/25 03:45	1

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-112058/2-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112058

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	854.3		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	886.0		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: LCSD 880-112058/3-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112058

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	856.4		mg/Kg		86	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	898.1		mg/Kg		90	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 890-8284-7 MS
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112058

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	781.0		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	825.2		mg/Kg		83	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 890-8284-7 MSD
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112058

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	797.1		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	835.3		mg/Kg		84	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8284-7 MSD
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112058

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	*92*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112056/1-A
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/12/25 09:16	1

Lab Sample ID: LCS 880-112056/2-A
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	235.1		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-112056/3-A
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.2		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-8284-1 MS
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: SW 15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	397		250	657.1		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8284-1 MSD
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: SW 15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	397		250	655.7		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

GC VOA

Analysis Batch: 112059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	8021B	112065
890-8284-2	SW 17	Total/NA	Solid	8021B	112065
MB 880-112065/5-A	Method Blank	Total/NA	Solid	8021B	112065
LCS 880-112065/1-A	Lab Control Sample	Total/NA	Solid	8021B	112065
LCSD 880-112065/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112065
890-8284-1 MS	SW 15	Total/NA	Solid	8021B	112065
890-8284-1 MSD	SW 15	Total/NA	Solid	8021B	112065

Analysis Batch: 112060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-5	SW 14	Total/NA	Solid	8021B	112067
890-8284-6	SW 16	Total/NA	Solid	8021B	112067
MB 880-112067/5-A	Method Blank	Total/NA	Solid	8021B	112067
LCS 880-112067/1-A	Lab Control Sample	Total/NA	Solid	8021B	112067
LCSD 880-112067/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112067
890-8284-5 MS	SW 14	Total/NA	Solid	8021B	112067
890-8284-5 MSD	SW 14	Total/NA	Solid	8021B	112067

Analysis Batch: 112061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-7	SW 18	Total/NA	Solid	8021B	112068
MB 880-112068/5-A	Method Blank	Total/NA	Solid	8021B	112068
LCS 880-112068/1-A	Lab Control Sample	Total/NA	Solid	8021B	112068
LCSD 880-112068/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112068
890-8284-7 MS	SW 18	Total/NA	Solid	8021B	112068
890-8284-7 MSD	SW 18	Total/NA	Solid	8021B	112068

Analysis Batch: 112062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-3	SW 19	Total/NA	Solid	8021B	112066
890-8284-4	SW 20	Total/NA	Solid	8021B	112066
MB 880-112066/5-A	Method Blank	Total/NA	Solid	8021B	112066
LCS 880-112066/1-A	Lab Control Sample	Total/NA	Solid	8021B	112066
LCSD 880-112066/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112066
890-8284-3 MS	SW 19	Total/NA	Solid	8021B	112066
890-8284-3 MSD	SW 19	Total/NA	Solid	8021B	112066

Prep Batch: 112065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	5035	
890-8284-2	SW 17	Total/NA	Solid	5035	
MB 880-112065/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112065/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112065/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8284-1 MS	SW 15	Total/NA	Solid	5035	
890-8284-1 MSD	SW 15	Total/NA	Solid	5035	

Prep Batch: 112066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-3	SW 19	Total/NA	Solid	5035	
890-8284-4	SW 20	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

GC VOA (Continued)

Prep Batch: 112066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-112066/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112066/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112066/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8284-3 MS	SW 19	Total/NA	Solid	5035	
890-8284-3 MSD	SW 19	Total/NA	Solid	5035	

Prep Batch: 112067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-5	SW 14	Total/NA	Solid	5035	
890-8284-6	SW 16	Total/NA	Solid	5035	
MB 880-112067/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112067/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112067/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8284-5 MS	SW 14	Total/NA	Solid	5035	
890-8284-5 MSD	SW 14	Total/NA	Solid	5035	

Prep Batch: 112068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-7	SW 18	Total/NA	Solid	5035	
MB 880-112068/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112068/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112068/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8284-7 MS	SW 18	Total/NA	Solid	5035	
890-8284-7 MSD	SW 18	Total/NA	Solid	5035	

Analysis Batch: 112119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	Total BTEX	
890-8284-2	SW 17	Total/NA	Solid	Total BTEX	
890-8284-3	SW 19	Total/NA	Solid	Total BTEX	
890-8284-4	SW 20	Total/NA	Solid	Total BTEX	
890-8284-5	SW 14	Total/NA	Solid	Total BTEX	
890-8284-6	SW 16	Total/NA	Solid	Total BTEX	
890-8284-7	SW 18	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 112031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	8015NM Prep	
890-8284-2	SW 17	Total/NA	Solid	8015NM Prep	
890-8284-3	SW 19	Total/NA	Solid	8015NM Prep	
890-8284-4	SW 20	Total/NA	Solid	8015NM Prep	
MB 880-112031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8284-1 MS	SW 15	Total/NA	Solid	8015NM Prep	
890-8284-1 MSD	SW 15	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

GC Semi VOA

Prep Batch: 112058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-5	SW 14	Total/NA	Solid	8015NM Prep	
890-8284-6	SW 16	Total/NA	Solid	8015NM Prep	
890-8284-7	SW 18	Total/NA	Solid	8015NM Prep	
MB 880-112058/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112058/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112058/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8284-7 MS	SW 18	Total/NA	Solid	8015NM Prep	
890-8284-7 MSD	SW 18	Total/NA	Solid	8015NM Prep	

Analysis Batch: 112078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	8015B NM	112031
890-8284-2	SW 17	Total/NA	Solid	8015B NM	112031
890-8284-3	SW 19	Total/NA	Solid	8015B NM	112031
890-8284-4	SW 20	Total/NA	Solid	8015B NM	112031
MB 880-112031/1-A	Method Blank	Total/NA	Solid	8015B NM	112031
LCS 880-112031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112031
LCSD 880-112031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112031
890-8284-1 MS	SW 15	Total/NA	Solid	8015B NM	112031
890-8284-1 MSD	SW 15	Total/NA	Solid	8015B NM	112031

Analysis Batch: 112080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-5	SW 14	Total/NA	Solid	8015B NM	112058
890-8284-6	SW 16	Total/NA	Solid	8015B NM	112058
890-8284-7	SW 18	Total/NA	Solid	8015B NM	112058
MB 880-112058/1-A	Method Blank	Total/NA	Solid	8015B NM	112058
LCS 880-112058/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112058
LCSD 880-112058/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112058
890-8284-7 MS	SW 18	Total/NA	Solid	8015B NM	112058
890-8284-7 MSD	SW 18	Total/NA	Solid	8015B NM	112058

Analysis Batch: 112129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	8015 NM	
890-8284-2	SW 17	Total/NA	Solid	8015 NM	
890-8284-3	SW 19	Total/NA	Solid	8015 NM	
890-8284-4	SW 20	Total/NA	Solid	8015 NM	
890-8284-5	SW 14	Total/NA	Solid	8015 NM	
890-8284-6	SW 16	Total/NA	Solid	8015 NM	
890-8284-7	SW 18	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 112056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Soluble	Solid	DI Leach	
890-8284-2	SW 17	Soluble	Solid	DI Leach	
890-8284-3	SW 19	Soluble	Solid	DI Leach	
890-8284-4	SW 20	Soluble	Solid	DI Leach	
890-8284-5	SW 14	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

HPLC/IC (Continued)

Leach Batch: 112056 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-6	SW 16	Soluble	Solid	DI Leach	
890-8284-7	SW 18	Soluble	Solid	DI Leach	
MB 880-112056/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-112056/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-112056/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8284-1 MS	SW 15	Soluble	Solid	DI Leach	
890-8284-1 MSD	SW 15	Soluble	Solid	DI Leach	

Analysis Batch: 112064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Soluble	Solid	300.0	112056
890-8284-2	SW 17	Soluble	Solid	300.0	112056
890-8284-3	SW 19	Soluble	Solid	300.0	112056
890-8284-4	SW 20	Soluble	Solid	300.0	112056
890-8284-5	SW 14	Soluble	Solid	300.0	112056
890-8284-6	SW 16	Soluble	Solid	300.0	112056
890-8284-7	SW 18	Soluble	Solid	300.0	112056
MB 880-112056/1-A	Method Blank	Soluble	Solid	300.0	112056
LCS 880-112056/2-A	Lab Control Sample	Soluble	Solid	300.0	112056
LCSD 880-112056/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	112056
890-8284-1 MS	SW 15	Soluble	Solid	300.0	112056
890-8284-1 MSD	SW 15	Soluble	Solid	300.0	112056

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 15

Date Collected: 06/11/25 09:49
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112065	06/12/25 08:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112059	06/12/25 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112031	06/11/25 16:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112078	06/12/25 11:36	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 11:16	CH	EET MID

Client Sample ID: SW 17

Date Collected: 06/11/25 08:56
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	112065	06/12/25 08:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112059	06/12/25 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	112031	06/11/25 16:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112078	06/12/25 12:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 11:38	CH	EET MID

Client Sample ID: SW 19

Date Collected: 06/11/25 09:05
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112066	06/12/25 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112062	06/12/25 11:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112031	06/11/25 16:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112078	06/12/25 12:41	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 11:45	CH	EET MID

Client Sample ID: SW 20

Date Collected: 06/11/25 09:09
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	112066	06/12/25 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112062	06/12/25 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 12:01	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 20

Lab Sample ID: 890-8284-4
Matrix: Solid
Date Collected: 06/11/25 09:09
Date Received: 06/11/25 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	112031	06/11/25 16:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112078	06/12/25 12:57	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 12:06	CH	EET MID

Client Sample ID: SW 14

Lab Sample ID: 890-8284-5
Matrix: Solid
Date Collected: 06/11/25 10:08
Date Received: 06/11/25 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112067	06/12/25 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112060	06/12/25 11:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112058	06/12/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112080	06/12/25 12:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 12:13	CH	EET MID

Client Sample ID: SW 16

Lab Sample ID: 890-8284-6
Matrix: Solid
Date Collected: 06/11/25 10:10
Date Received: 06/11/25 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	112067	06/12/25 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112060	06/12/25 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 12:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112058	06/12/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112080	06/12/25 12:41	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 12:20	CH	EET MID

Client Sample ID: SW 18

Lab Sample ID: 890-8284-7
Matrix: Solid
Date Collected: 06/11/25 10:45
Date Received: 06/11/25 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112068	06/12/25 09:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112061	06/12/25 11:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112058	06/12/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112080	06/12/25 11:36	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 18

Date Collected: 06/11/25 10:45
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 12:27	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8284-1	SW 15	Solid	06/11/25 09:49	06/11/25 12:25	0-1
890-8284-2	SW 17	Solid	06/11/25 08:56	06/11/25 12:25	0-1
890-8284-3	SW 19	Solid	06/11/25 09:05	06/11/25 12:25	0-1
890-8284-4	SW 20	Solid	06/11/25 09:09	06/11/25 12:25	0-2
890-8284-5	SW 14	Solid	06/11/25 10:08	06/11/25 12:25	0-1
890-8284-6	SW 16	Solid	06/11/25 10:10	06/11/25 12:25	0-2
890-8284-7	SW 18	Solid	06/11/25 10:45	06/11/25 12:25	0-2

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6/12/2025

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	805-798-2608	Email:	kthomason@ensolum.com; hgreen@ensolum.com aferrell@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	07A1988214	☐ Routine ☑ Rush	
Project Location:	32.30486, -103.89709	Due Date:	24-Hr
Sampler's Name:	Alex Ferrell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TN/MUC
~~Cooler Custody Seals:~~	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.4
Total Containers:		Corrected Temperature:	5.2

ANALYSIS REQUEST

890-8284 Chain of Custody

Preservative Codes

ne: NO DI Water: H_2O
ol: Cool MeOH: Me
L: HC HNO_3: HN
SO_4: H_2 NaOH: Na
PO_4: HP
$aHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chloride 300	TPH 8015	BTEX 8021	Sample Comments
SW15	So:1	6/11/25	0949	0-1	C	1	X	X	X	
SW17			0856	0-1						
SW19			0905	0-1						
SW20			0909	0-2						
SW14			1008	0-1						
SW16			1010	0-2						
SW18	So:1	6/11/25	1045	0-2	C	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6/11 1225	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5267.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8284-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 6/12/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW 15 (890-8284-1)	6/11/25	09:49 Mountain	G	Solid			X	X	X	X	X	1	
SW 17 (890-8284-2)	6/11/25	08:56 Mountain	G	Solid			X	X	X	X	X	1	
SW 19 (890-8284-3)	6/11/25	09:05 Mountain	G	Solid			X	X	X	X	X	1	
SW 20 (890-8284-4)	6/11/25	09:09 Mountain	G	Solid			X	X	X	X	X	1	
SW 14 (890-8284-5)	6/11/25	10:08 Mountain	G	Solid			X	X	X	X	X	1	
SW 16 (890-8284-6)	6/11/25	10:10 Mountain	G	Solid			X	X	X	X	X	1	
SW 18 (890-8284-7)	6/11/25	10:45 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/11 1630				
Relinquished by:	Date/Time:	Company	Received by: Tekoy Randell-Lee	Date/Time: 6/12/25 0800	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.2/5.1°C FR-8

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8284-1
SDG Number: 07A1988214

Login Number: 8284
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8284-1
SDG Number: 07A1988214

Login Number: 8284
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 06/12/25 07:29 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

ENSOLUM

APPENDIX E

NMOCD Notifications

Hadlie Green

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Monday, March 17, 2025 4:26 PM
To: Hadlie Green
Cc: Connor Walker; Jeff Broom; Dan Moir; john.hall@flatlandenergy.com; Corbin.Berrones@flatlandenergy.com
Subject: (Extension Approval) - Mewbourne - Flatland FNR Frac Line (Incident Number nAPP2435547582)

[**EXTERNAL EMAIL**]

RE: Incident **#NAPP2435547582**

Hadlie,

A 90-day extension is approved. Please have a remediation plan and/or remediation closure report uploaded to the OCD Permitting Portal no later than **June 16th, 2025**. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, March 17, 2025 10:17 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Mewbourne - Extension Request - Flatland FNR Frac Line (Incident Number nAPP2435547582)

From: Hadlie Green <hgreen@ensolum.com>
Sent: Monday, March 17, 2025 10:07 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Dan Moir <dmoir@ensolum.com>; John Hall <john.hall@flatlandenergy.com>; Corbin Berrones <Corbin.Berrones@flatlandenergy.com>
Subject: [EXTERNAL] Mewbourne - Extension Request - Flatland FNR Frac Line (Incident Number nAPP2435547582)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

Flatland FNR Frac Line (Incident Number nAPP2435547582)

Mewbourne Oil Company (Mewbourne) is requesting an extension for the current deadline of March 17, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Flatland FNR Frac Line (Incident Number nAPP2435547582). The release was discovered on December 16, 2024. Initial assessment and delineation activities have been completed and excavation activities are required. Excavation activities are delayed due to the required completion of an ARMS review and pedestrian survey. In order to complete remediation efforts, review the laboratory analytical results, and submit a remediation work plan or closure report, Mewbourne requests a 90-day extension of this deadline until July 15, 2025.

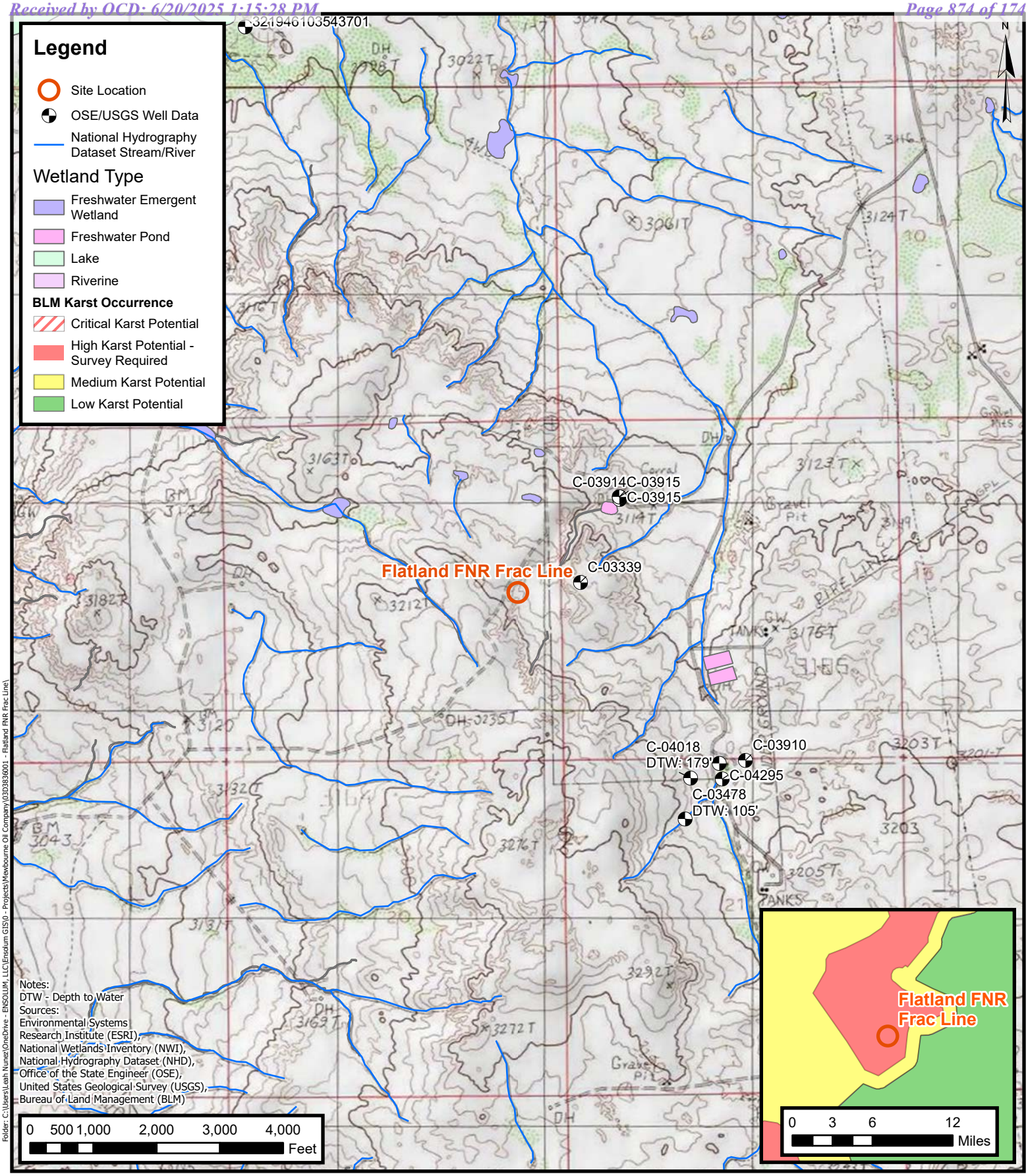
Depth to groundwater is estimated to be greater than 100 feet bgs. The closest continuously flowing or significant watercourse to the Site is a river that is 4,670 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied 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 line. The Site is a medium potential karst designation area. Potential Site receptors are identified on the attached Figure 1.

Thank you,

Hadlie Green
Project Geologist
432-557-8895
hgreen@ensolum.com
Ensolum, LLC

ENSOLUM

FIGURES



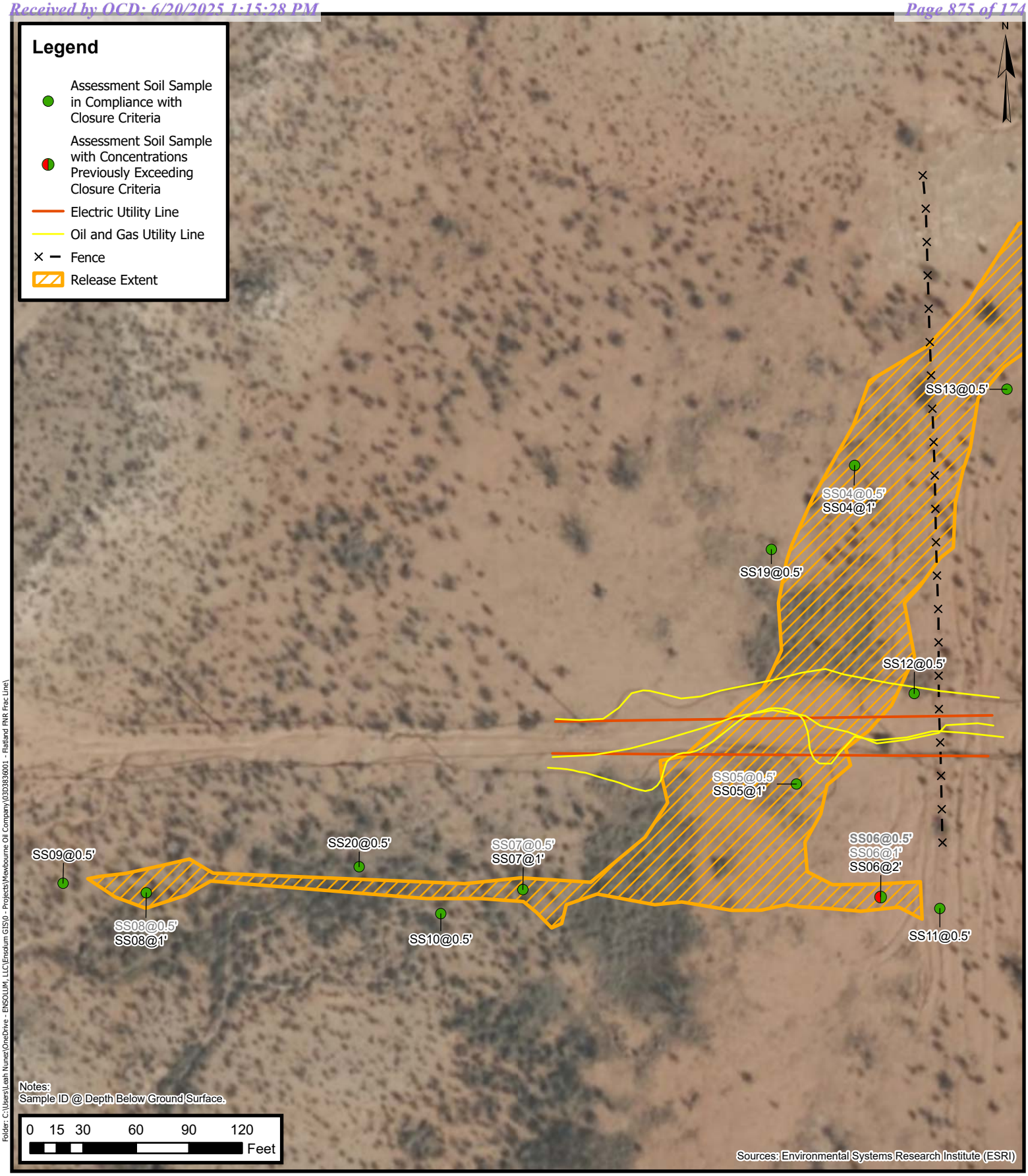
Folder: C:\Users\Leah Nunez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Mewbourne Oil Company\030383600 1 - Flatland FNR Frac Line\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 1



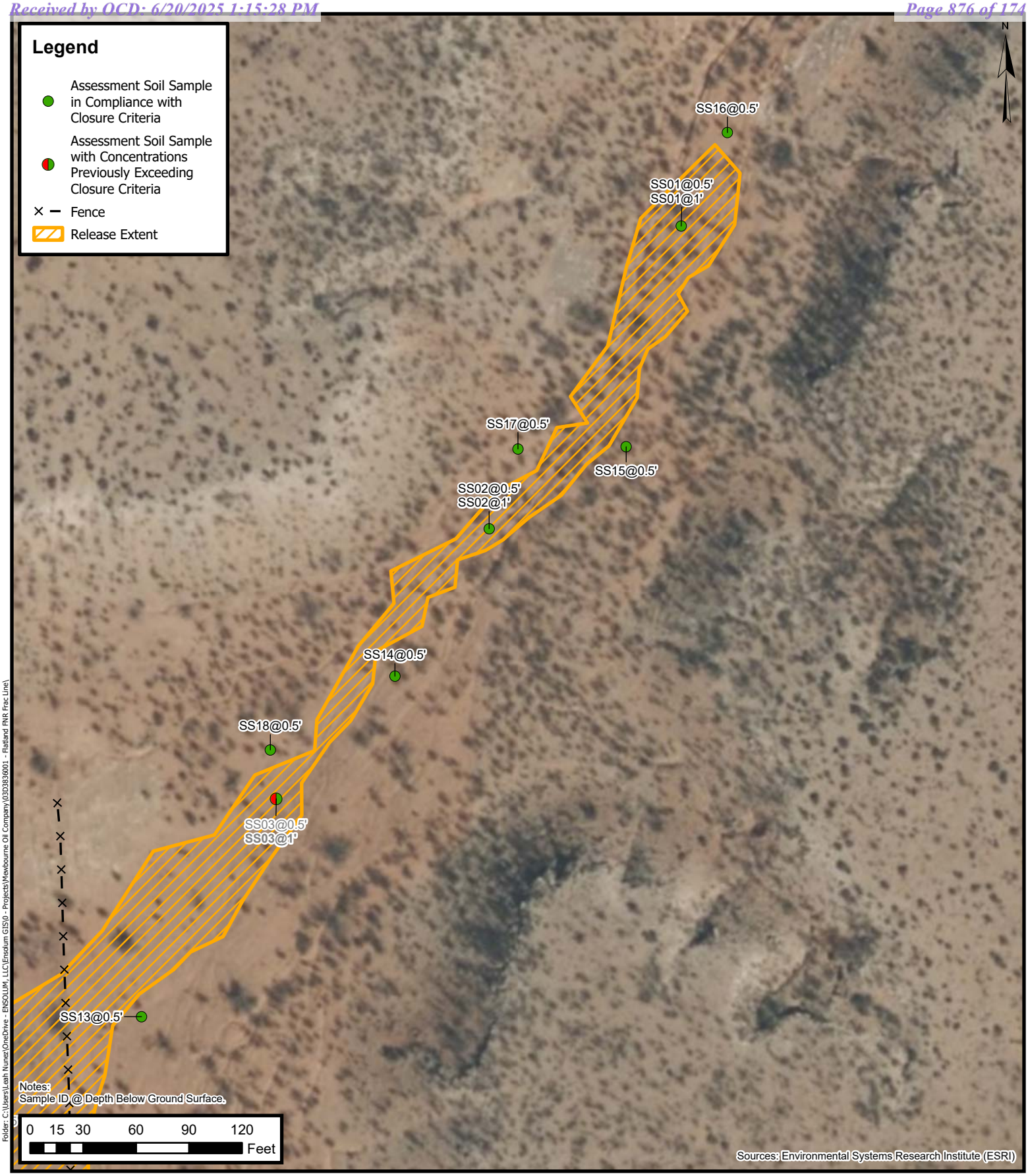
Folder: C:\Users\Leah Nunez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Mewbourne Oil Company\03D3836001 - Flatland FNR Frac Line\

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Environmental, Engineering and Hydrogeologic Consultants

Assessment Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 2a



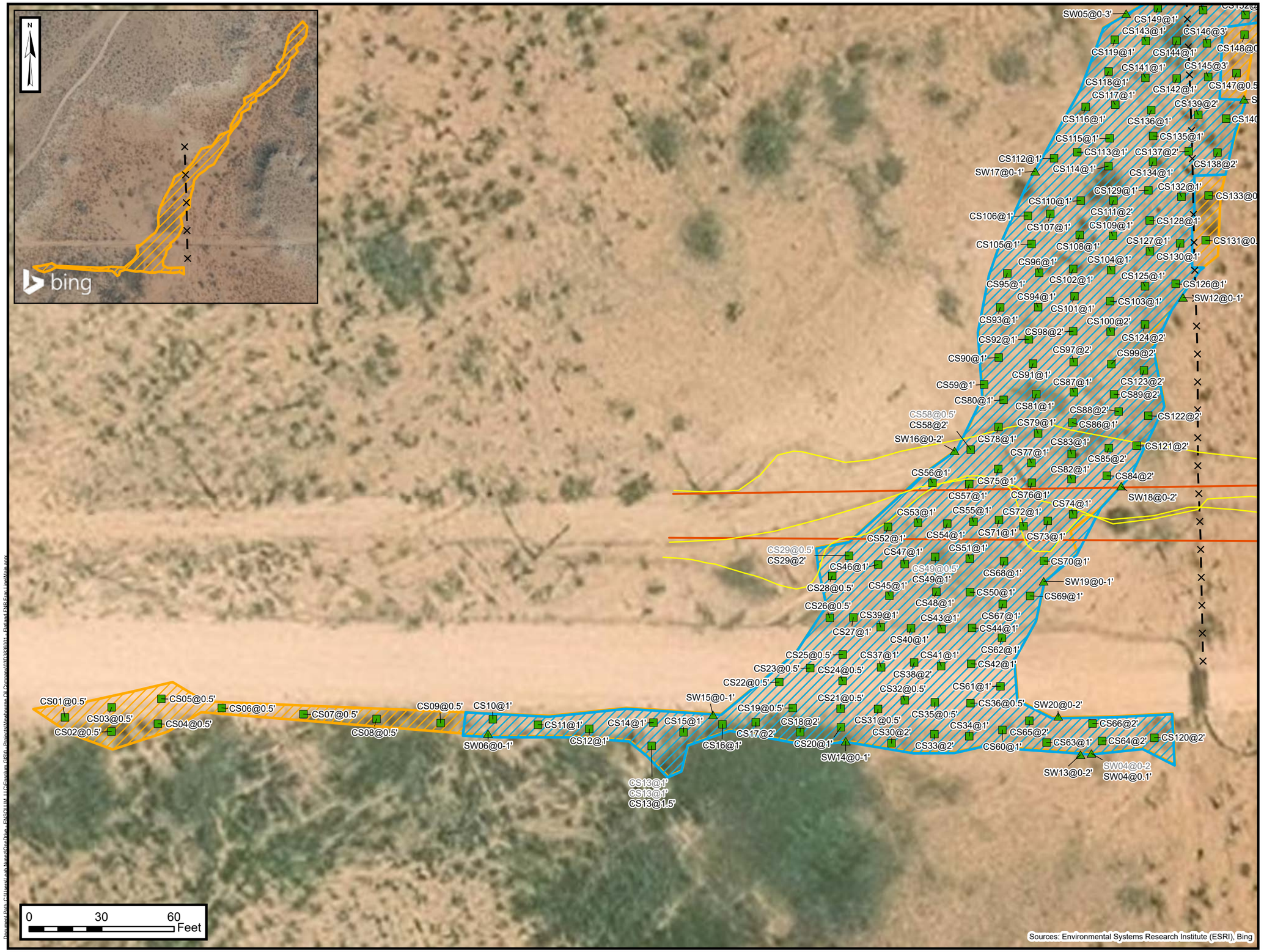
Folder: C:\Users\Leah Nunez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Mewbourne Oil Company\03D3836001 - Flatland FNR Frac Line\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Assessment Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 2b



Legend

- Composite Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Fence
- Excavation Extent
- Release Extent

Notes:
Sample ID @ Depth Below Ground Surface.

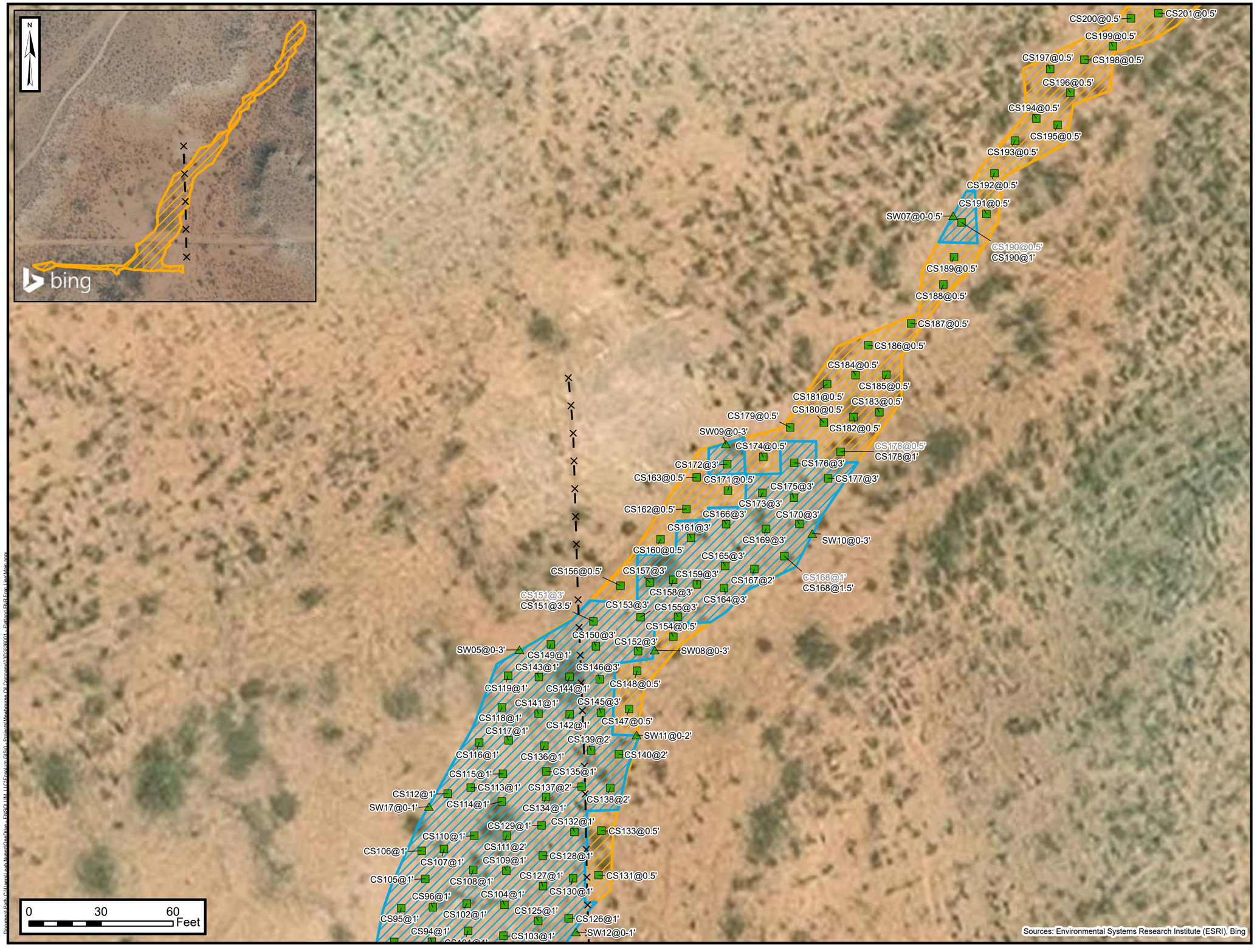
Composite Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 3a

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Document Path: C:\Users\Lain.Nunez\OneDrive - ENSOLUM, LLC\Projects\Mewbourne Oil Company\Flatland FNR Frac Line\Maps



Legend

- Composite Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Fence
- Excavation Extent
- Release Extent

Notes:
Sample ID @ Depth Below Ground Surface.

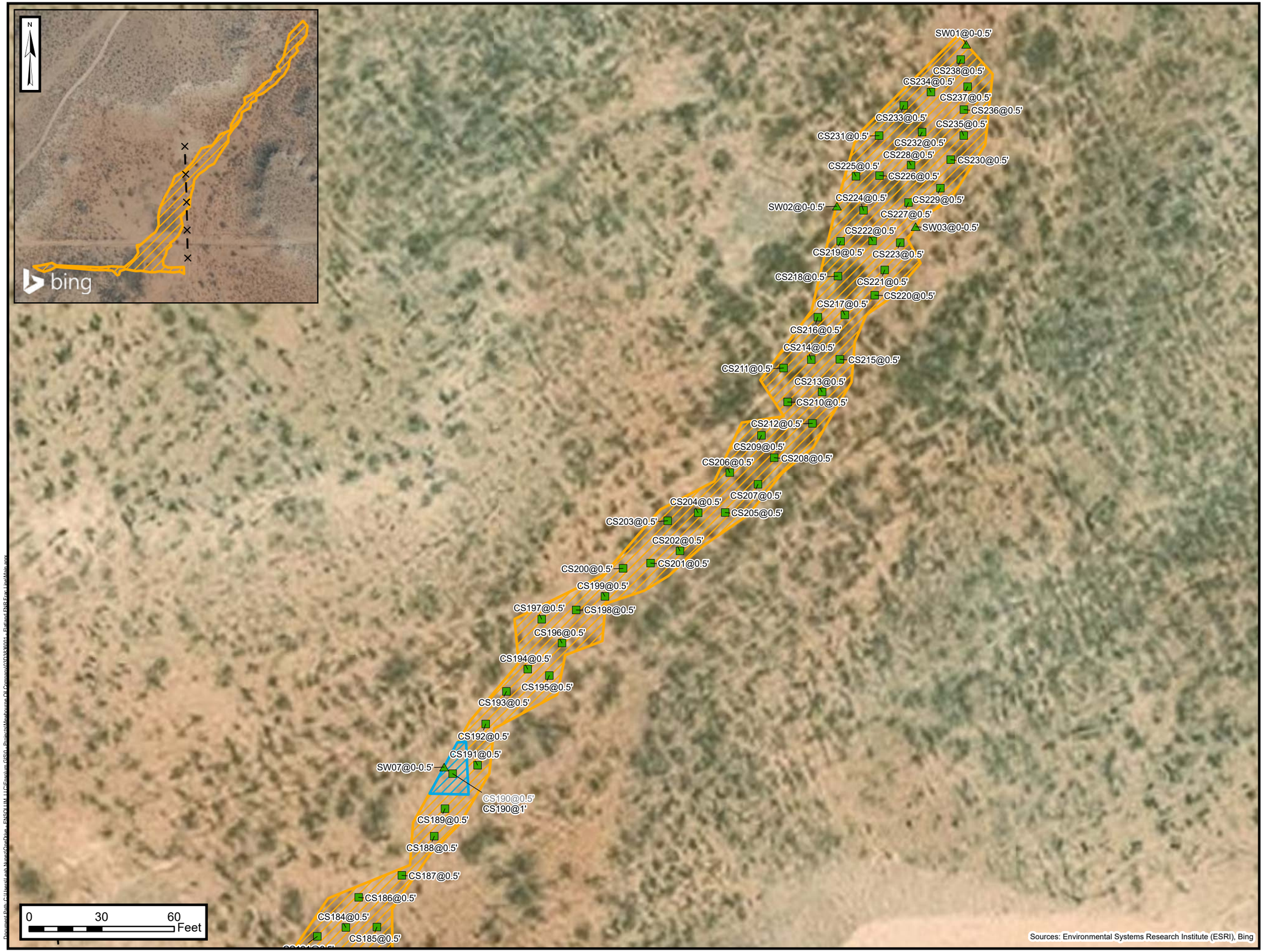
Composite Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 3b

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

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Legend

- Composite Sample in Compliance with Closure Criteria
- Excavation Sidewall Sample in Compliance with Closure Criteria
- Fence
- Excavation Extent
- Release Extent

Notes:
Sample ID @ Depth Below Ground Surface.

Composite Soil Sample Locations

Mewbourne Oil Company
Flatland FNR Frac Line
Incident Number: nAPP2435547582
Unit I, Section 17, T 23S, R 30E
Eddy County, New Mexico

FIGURE 3c

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Assessment Soil Samples										
SS01	01/20/2025	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	18.8
SS01	01/29/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	13.8
SS02	01/20/2025	0.5	<0.00199	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	444
SS02	01/29/2025	1	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	17.6
~~SS03~~	~~01/20/2025~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~322~~
~~SS03~~	~~01/29/2025~~	~~1~~	~~<0.00200~~	~~<0.00400~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~827~~
~~SS04~~	~~01/20/2025~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~409~~
SS04	01/29/2025	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	592
~~SS05~~	~~01/20/2025~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~143~~
SS05	01/29/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	174
~~SS06~~	~~01/20/2025~~	~~0.5~~	~~<0.00201~~	~~<0.00402~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~2,990~~
~~SS06~~	~~01/29/2025~~	~~1~~	~~<0.00198~~	~~<0.00396~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~315~~
SS06	01/29/2025	2	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	374
~~SS07~~	~~01/20/2025~~	~~0.5~~	~~<0.00200~~	~~<0.00400~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~69.5~~
SS07	01/29/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	93.3
~~SS08~~	~~01/20/2025~~	~~0.5~~	~~<0.00200~~	~~<0.00399~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~221~~
SS08	01/29/2025	1	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	315
SS09	01/20/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	155
SS10	01/20/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	27.3
SS11	01/20/2025	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	529
SS12	01/20/2025	0.5	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	<10.0
SS13	01/20/2025	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	<9.96
SS14	01/20/2025	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	<10.0
SS15	01/20/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<10.0
SS16	01/20/2025	0.5	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	<10.1

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
SS17	01/20/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	13.2
SS18	01/20/2025	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	11.9
SS19	01/20/2025	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	27.6
SS20	01/20/2025	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	122
Excavation Composite Floor Soil Samples										
CS01	05/06/2025	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	264
CS02	05/06/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	327
CS03	05/06/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	78.0
CS04	05/06/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	253
CS05	05/06/2025	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	208
CS06	05/06/2025	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	129
CS07	05/06/2025	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	178
CS08	05/06/2025	0.5	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	95.3
CS09	05/06/2025	0.5	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	188
CS10	05/30/2025	1	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	343
CS11	05/30/2025	1	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	217
CS12	05/15/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	283
~~CS13~~	~~04/29/2025~~	~~1~~	~~<0.00200~~	~~<0.00400~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~649~~
~~CS13~~	~~05/15/2025~~	~~1~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~721~~
CS13	05/30/2025	1.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	381
CS14	05/15/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	241
CS15	05/15/2025	1	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	146
CS16	05/30/2025	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	509
CS17	05/15/2025	2	<0.00201	<0.00402	<49.6	<49.6	<49.6	<49.6	<49.6	317
CS18	05/15/2025	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	141
CS19	05/30/2025	0.5	<0.00198	<0.00197	<50.1	<50.1	<50.1	<50.1	<50.1	259

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS20	05/16/2025	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	404
CS21	05/30/2025	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	318
CS22	05/30/2025	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	254
CS23	05/30/2025	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	103
CS24	05/30/2025	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	152
CS25	05/30/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	135
CS26	05/30/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	193
CS27	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	119
CS28	04/14/2025	0.5	<0.00201	0.0383	<50.3	<50.3	<50.3	<50.3	<50.3	455
~~CS29~~	~~04/14/2025~~	~~0.5~~	~~<0.00200~~	~~<0.00401~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~3,230~~
CS29	05/30/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	129
CS30	05/15/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	301
CS31	05/30/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	146
CS32	05/30/2025	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	128
CS33	04/30/2025	2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	587
CS34	05/16/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	575
CS35	05/30/2025	0.5	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	114
CS36	05/30/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	143
CS37	05/14/2025	1	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	254
CS38	05/14/2025	2	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	167
CS39	05/30/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	113
CS40	05/30/2025	1	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	80.2
CS41	05/14/2025	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	154
CS42	05/14/2025	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	162
CS43	05/30/2025	1	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	102
CS44	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	80.2

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
CS45	05/30/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	107
CS46	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	118
CS47	05/30/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	130
CS48	05/30/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	173
~~CS49~~	~~04/14/2025~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~<49.6~~	~~1,950~~
CS49	05/30/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	61.6
CS50	05/30/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	164
CS51	05/30/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	109
CS52	05/30/2025	1	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	273
CS53	05/30/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	133
CS54	05/30/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	145
CS55	05/30/2025	1	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	67.6
CS56	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	97.0
CS57	05/30/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	141
~~CS58~~	~~04/14/2025~~	~~0.5~~	~~<0.00198~~	~~<0.00396~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~9,640~~
CS58	05/30/2025	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	63.6
CS59	05/30/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	216
CS60	05/16/2025	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	182
CS61	05/14/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	200
CS62	05/16/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	269
CS63	05/16/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	392
CS64	04/30/2025	2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	321
CS65	05/30/2025	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	126
CS66	05/01/2025	2	<0.00202	<0.00404	<50.3	<50.3	<50.3	<50.3	<50.3	154
CS67	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	111
CS68	05/30/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	86.4

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS69	05/30/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	109
CS70	05/30/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	132
CS71	05/30/2025	1	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	134
CS72	05/30/2025	1	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	88.2
CS73	05/30/2025	1	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	124
CS74	05/30/2025	1	<0.00198	<0.00397	<50.1	<50.1	<50.1	<50.1	<50.1	106
CS75	05/30/2025	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	133
CS76	05/30/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	122
CS77	05/30/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	102
CS78	05/15/2025	1	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	423
CS79	05/15/2025	1	<0.00198	<0.00397	<50.1	<50.1	<50.1	<50.1	<50.1	290
CS80	05/15/2025	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	153
CS81	05/30/2025	1	<0.00198	<0.00396	<49.6	<49.6	<49.6	<49.6	<49.6	130
CS82	05/30/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	143
CS83	05/30/2025	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	118
CS84	05/30/2025	2	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	161
CS85	05/05/2025	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	287
CS86	05/16/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	121
CS87	05/16/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	481
CS88	05/05/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	191
CS89	05/05/2025	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	181
CS90	05/15/2025	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	135
CS91	05/15/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	239
CS92	05/15/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	180
CS93	05/15/2025	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	181
CS94	05/15/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	266

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS95	05/05/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	150
CS96	05/05/2025	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	242
CS97	05/16/2025	2	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	95.8
CS98	05/16/2025	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	108
CS99	05/05/2025	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	100
CS100	05/05/2025	2	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	129
CS101	05/05/2025	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	402
CS102	05/05/2025	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	467
CS103	05/05/2025	1	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	385
CS104	05/16/2025	1	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	424
CS105	05/05/2025	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	88.8
CS106	05/05/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	182
CS107	05/05/2025	1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	223
CS108	05/05/2025	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	265
CS109	05/05/2025	1	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	539
CS110	05/05/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	270
CS111	05/16/2025	2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	162
CS112	05/02/2025	1	0.00212	0.00856	<50.0	<50.0	<50.0	<50.0	<50.0	211
CS113	05/02/2025	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	332
CS114	05/02/2025	1	<0.00199	0.00539	<50.1	<50.1	<50.1	<50.1	<50.1	304
CS115	05/02/2025	1	<0.00198	0.0106	<50.4	<50.4	<50.4	<50.4	<50.4	300
CS116	05/02/2025	1	<0.00198	<0.00397	<50.3	<50.3	<50.3	<50.3	<50.3	129
CS117	05/02/2025	1	0.00551	0.00551	<50.1	<50.1	<50.1	<50.1	<50.1	194
CS118	05/02/2025	1	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	93.4
CS119	05/02/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	144
CS120	05/01/2025	2	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	130

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS121	05/05/2025	2	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	145
CS122	05/05/2025	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	203
CS123	05/02/2025	2	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	183
CS124	05/02/2025	2	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	253
CS125	05/02/2025	1	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	282
CS126	05/02/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	178
CS127	05/02/2025	1	0.00200	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	229
CS128	05/01/2025	1	<0.00200	<0.00399	<50.2	<50.2	<50.2	<50.2	<50.2	269
CS129	05/01/2025	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	320
CS130	05/01/2025	1	<0.00202	<0.00404	<50.3	<50.3	<50.3	<50.3	<50.3	364
CS131	04/28/2025	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	116
CS132	05/01/2025	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	233
CS133	04/28/2025	0.5	0.00938	0.0172	<49.8	<49.8	<49.8	<49.8	<49.8	548
CS134	05/01/2025	1	<0.00202	<0.00403	<50.2	<50.2	<50.2	<50.2	<50.2	364
CS135	05/01/2025	1	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	222
CS136	05/08/2025	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	240
CS137	05/16/2025	2	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	237
CS138	05/16/2025	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	475
CS139	05/30/2025	2	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	194
CS140	05/30/2025	2	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	129
CS141	05/02/2025	1	<0.00200	0.0142	<49.7	<49.7	<49.7	<49.7	<49.7	288
CS142	05/01/2025	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	313
CS143	05/02/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	153
CS144	05/02/2025	1	<0.00202	<0.00404	<50.2	<50.2	<50.2	<50.2	<50.2	476
CS145	05/30/2025	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	133
CS146	05/30/2025	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	146

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS147	04/28/2025	0.5	0.00214	0.00614	<49.9	<49.9	<49.9	<49.9	<49.9	506
CS148	04/28/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	450
CS149	05/02/2025	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	190
CS150	05/16/2025	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	108
~~CS151~~	~~05/16/2025~~	~~3~~	~~<0.00199~~	~~<0.00398~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~<49.8~~	~~699~~
CS151	05/30/2025	3.5	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	119
CS152	05/15/2025	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	146
CS153	05/15/2025	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	203
CS154	04/30/2025	0.5	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	121
CS155	05/15/2025	3	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	231
CS156	04/30/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	118
CS157	05/15/2025	3	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	225
CS158	05/15/2025	3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	257
CS159	05/15/2025	3	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	298
CS160	04/28/2025	0.5	<0.00198	<0.00397	<3.57	<3.57	<3.57	<3.57	<3.57	415
CS161	05/15/2025	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	248
CS162	04/28/2025	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	270
CS163	04/28/2025	0.5	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	66.6
CS164	05/15/2025	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	364
CS165	05/15/2025	3	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	237
CS166	05/15/2025	3	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	247
CS167	05/30/2025	2	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	71.2
~~CS168~~	~~05/14/2025~~	~~1~~	~~<0.00200~~	~~<0.00399~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~740~~
CS168	05/30/2025	1.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	173
CS169	05/15/2025	3	<0.00198	<0.00397	<49.7	<49.7	<49.7	<49.7	<49.7	279
CS170	05/30/2025	3	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	111

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TABLE 1
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Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS171	04/28/2025	0.5	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	527
CS172	05/15/2025	3	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	571
CS173	05/15/2025	3	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	374
CS174	04/29/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	270
CS175	05/15/2025	3	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	235
CS176	05/15/2025	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	295
CS177	05/15/2025	3	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	105
~~CS178~~	~~04/29/2025~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~<49.9~~	~~648~~
CS178	05/30/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	135
CS179	04/29/2025	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	350
CS180	04/29/2025	0.5	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	335
CS181	04/29/2025	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	125
CS182	04/29/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	343
CS183	04/29/2025	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	74.0
CS184	04/29/2025	0.5	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	474
CS185	04/29/2025	0.5	0.00200	0.00585	<49.7	<49.7	<49.7	<49.7	<49.7	105
CS186	04/29/2025	0.5	<0.00198	0.00670	<49.8	<49.8	<49.8	<49.8	<49.8	674
CS187	04/15/2025	0.5	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	132
CS188	04/15/2025	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	25.8
CS189	04/15/2025	0.5	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	95.7
~~CS190~~	~~04/15/2025~~	~~0.5~~	~~<0.00199~~	~~<0.00398~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~<49.7~~	~~5,400~~
CS190	05/06/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	300
CS191	04/15/2025	0.5	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	97.7
CS192	04/15/2025	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	108
CS193	04/15/2025	0.5	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	107
CS194	05/06/2025	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	100

ENSOLUM

TABLE 1
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Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
CS195	04/15/2025	0.5	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	90.1
CS196	04/15/2025	0.5	<0.00202	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	72.6
CS197	04/15/2025	0.5	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	91.7
CS198	04/15/2025	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	102
CS199	05/06/2025	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	179
CS200	04/16/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	124
CS201	04/16/2025	0.5	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	80.8
CS202	04/16/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	65.4
CS203	04/15/2025	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	95.4
CS204	04/16/2025	0.5	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	98.0
CS205	04/16/2025	0.5	0.00298	0.0265	<50.0	<50.0	<50.0	<50.0	<50.0	108
CS206	04/16/2025	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	84.8
CS207	04/16/2025	0.5	<0.00200	0.00454	<50.0	<50.0	<50.0	<50.0	<50.0	89.2
CS208	04/16/2025	0.5	<0.00202	0.00588	<49.8	<49.8	<49.8	<49.8	<49.8	124
CS209	04/16/2025	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	71.4
CS210	04/29/2025	0.5	<0.00199	0.00497	<50.0	<50.0	<50.0	<50.0	<50.0	139
CS211	04/29/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	350
CS212	04/16/2025	0.5	0.00252	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	65.5
CS213	04/16/2025	0.5	<0.00199	0.00479	<50.0	<50.0	<50.0	<50.0	<50.0	62.2
CS214	04/16/2025	0.5	0.00208	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	271
CS215	04/16/2025	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	83.8
CS216	04/16/2025	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	104
CS217	04/16/2025	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	81.4
CS218	04/16/2025	0.5	<0.00198	<0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	92.5
CS219	04/16/2025	0.5	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	93.8
CS220	04/16/2025	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	98.0

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
CS221	04/15/2025	0.5	<0.00200	<0.00401	<49.6	<49.6	<49.6	<49.6	<49.6	79.0
CS222	04/16/2025	0.5	<0.00202	0.00746	<49.9	<49.9	<49.9	<49.9	<49.9	113
CS223	04/16/2025	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	61.1
CS224	04/15/2025	0.5	<0.00200	<0.00401	<50.4	<50.4	<50.4	<50.4	<50.4	104
CS225	04/16/2025	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	101
CS226	04/16/2025	0.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	196
CS227	04/16/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	76.9
CS228	04/16/2025	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	97.1
CS229	04/16/2025	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	46.5
CS230	04/15/2025	0.5	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	114
CS231	04/16/2025	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	80.8
CS232	04/16/2025	0.5	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	54.3
CS233	04/16/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	94.8
CS234	04/15/2025	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	108
CS235	04/16/2025	0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	75.7
CS236	04/16/2025	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	60.3
CS237	04/16/2025	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	90.9
CS238	04/29/2025	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	119
Excavation Composite Sidewall Soil Samples										
SW01	04/30/2025	0 - 0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	116
SW02	04/30/2025	0 - 0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	86.6
SW03	04/30/2025	0 -0.5	<0.00198	<0.00397	<50.2	<50.2	<50.2	<50.2	<50.2	99.2
~~SW04~~	~~04/30/2025~~	~~0 - 2~~	~~<0.00200~~	~~<0.00401~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~<50.0~~	~~**1,880**~~
SW04	05/16/2025	0 - 1	<0.00202	<0.00404	<50.2	<50.2	<50.2	<50.2	<50.2	136
SW05	05/16/2025	0 - 3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	107
SW06	05/30/2025	0 - 1	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	72.9

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Flatland FNR Frac Line
Mewbourne Oil Company
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
SW07	05/06/2025	0 - 0.5	<0.00202	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	191
SW08	05/30/2025	0 - 3	<0.00199	<0.00398	<50.0	57	<50.0	57	57.4	111
SW09	05/16/2025	0 - 3	<0.00202	<0.00404	<50.1	<50.1	<50.1	<50.1	<50.1	297
SW10	05/30/2025	0 - 3	<0.00198	<0.00397	<50.3	<50.3	<50.3	<50.3	<50.3	45.8
SW11	05/30/2025	0 - 2	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	119
SW12	05/16/2025	0 - 1	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	249
SW13	05/30/2025	0 - 2	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	104
SW14	06/11/2025	0 - 1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	219
SW15	06/11/2025	0 - 1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	397
SW16	06/11/2025	0 - 2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	117
SW17	06/11/2025	0 - 1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	137
SW18	06/11/2025	0 - 2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	96.9
SW19	06/11/2025	0 - 1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	309
SW20	06/11/2025	0 - 2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	96.7

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon

*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*
~~Grey~~ text represents samples that have been excavated

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APPENDIX A

Referenced Well Records

Received by OCD: 6/20/2025 1:15:28 PM

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1		C-4018

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Jay Mobley c/o Mstapleton LLC	575-706-5659

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
1108 W. Pierce St	Carlsbad	NM	88220

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	17	48.2	N
	LONGITUDE	103	53	18.1	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

NE 1/4 of NE 1/4 of NW 1/4 of Section 21, Township 23S, Range 30E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1737	Justin Mullins	WRR INC

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
3/24/2017	3/28/2017	380	380	179

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): 179

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	40	17.5	(Surface casing) Steel	Welded	12	1/4	
0	120	12.5	Steel	Welded	8	1/4	
120	140	12.5	Steel	Welded	8	1/4	.035
140	180	12.5	Steel	Welded	8	1/4	
180	200	12.5	Steel	Welded	8	1/4	.035
200	220	12.5	Steel	Welded	8	1/4	
220	240	12.5	Steel	Welded	8	1/4	.035
240	260	12.5	Steel	Welded	8	1/4	
260	360	12.5	Steel	Welded	8	1/4	.035
360	380	12.5	Steel	Welded	8	1/4	

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	40	17.5	(Surface casing) Portland Cement	31.3	Hand
0	20	12.5	Portland Cement	9.2	Hand
20	380	12.5	Pea Gravel	165	Hand

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	C-4018 EXPL	POD NO.	1	TRN NO.	602135
LOCATION	2 2 1 Sec21 T23SR30E	WELL TAG ID NO.	NA	PAGE 1 OF 2	

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4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	10	10	Topsoil	Y ✔ N	
10	25	15	Caliche	Y ✔ N	
25	35	10	Hard White Rock	Y ✔ N	
35	70	35	Red Sand/Clay Mix	Y ✔ N	
70	75	5	Sandstone	Y ✔ N	
75	170	95	Hard Glassy White Rock	Y ✔ N	
170	180	10	Fractured Rock	✔ Y N	5.00
180	190	10	Red Clay	Y ✔ N	
190	223	33	Sand & Gravel	✔ Y N	60.00
223	240	17	Tan Rock	Y ✔ N	
240	255	15	Red Sand	Y ✔ N	
255	260	5	Hard Rock	Y ✔ N	
260	375	115	Gravel/Grey Clay Conglomerate	Y ✔ N	
375	380	5	Red Clay	Y ✔ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:
☐ PUMP ☑ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 65.00

2017 SEP 11 PM 11:23 STATE ENGINEER OFFICE ROSWELL, NEW MEXICO

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:
Austin Gregory

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Justin Mullins — Justin Mullins
SIGNATURE OF DRILLER / PRINT SIGNEE NAME

4-1-2017
DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4018	POD NO. 1	TRN NO. 607135	
LOCATION 221 Sec 21 T23S R30E		WELL TAG ID NO. NA	PAGE 2 OF 2

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APPENDIX B

NMSLO Cultural Resources Cover Sheet

Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit

NMCRIS Activity Number:
(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

(A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
(B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
(C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

Project Location:

County(ies):

PLSS/Section/Township/Range):

For NMSLO Agency Use Only:

NMSLO Lease Number: Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

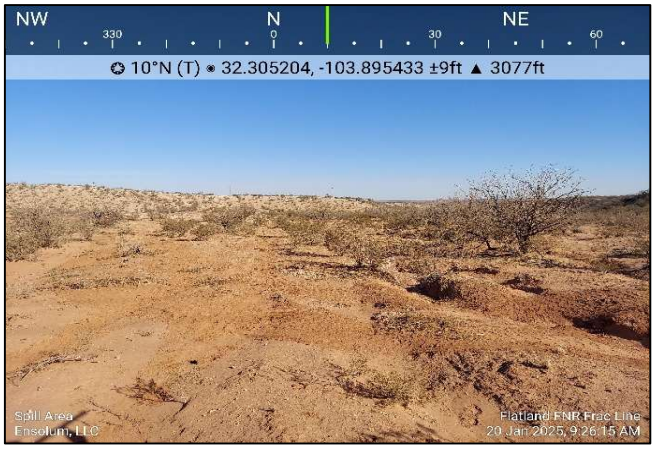
ENSOLUM

APPENDIX C

Photographic Log

ENSOLUM

Photographic Log
Mewbourne Oil Company
Flatland FNR Frac Line
Eddy County, New Mexico



Photograph: 1 Date: 1/20/2025
Description: Initial assessment activities
View: North



Photograph: 2 Date: 1/20/2025
Description: Initial assessment activities
View: East



Photograph: 3 Date: 5/6/2025
Description: Excavation activities
View: Southwest



Photograph: 4 Date: 5/14/2025
Description: Excavation activities
View: South

ENSOLUM

Photographic Log
Flatland Energy Services LLC
Flatland FNR Frac Line
Eddy County, NM



Photograph: 5 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 6 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 7 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 8 Date: 5/30/2025
Description: Excavation activities
View: Northwest

ENSOLUM

Photographic Log
Flatland Energy Services LLC
Flatland FNR Frac Line
Eddy County, NM



Photograph: 9 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 10 Date: 5/30/2025
Description: Fence and Excavation activities
View: Northwest



Photograph: 11 Date: 5/30/2025
Description: Excavation activities
View: Northwest



Photograph: 12 Date: 5/30/2025
Description: Excavation activities
View: Northwest

ENSOLUM

Photographic Log
Flatland Energy Services LLC
Flatland FNR Frac Line
Eddy County, NM



Photograph: 13 Date: 6/11/2025
Description: Composite sampling activities
View: Southeast



Photograph: 14 Date: 6/11/2025
Description: Composite sampling activities
View: East



Photograph: 15 Date: 6/11/2025
Description: Composite soil sampling activities
View: North



Photograph: 16 Date: 6/11/2025
Description: Composite soil sampling activities
View: Southeast

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/22/2025 12:44:00 PM

JOB DESCRIPTION

FLAHAND FNR FRACLINE
03D36001

JOB NUMBER

890-7585-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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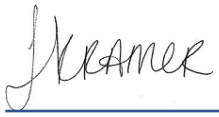
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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1/22/2025 12:44:00 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Laboratory Job ID: 890-7585-1
SDG: 03D36001

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Definitions/Glossary

Client: Ensolum Job ID: 890-7585-1
Project/Site: FLAHAND FNR FRACLINE SDG: 03D36001

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-7585-1
Project: FLAHAND FNR FRACLINE

Job ID: 890-7585-1 Eurofins Carlsbad

Job Narrative
890-7585-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/20/2025 3:54 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 0.4°C.

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-100717 and analytical batch 880-100737 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-100717 and analytical batch 880-100737 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-100717/2-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
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-100746 and analytical batch 880-100761 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS01

Lab Sample ID: 890-7585-1
Matrix: Solid
Date Collected: 01/20/25 09:35
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 11:38	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 11:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:38*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/21/25 11:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/21/25 12:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 12:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 12:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 12:47*	*1*
o-Terphenyl	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 12:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**18.8**		9.98		mg/Kg			01/21/25 22:26	1

Client Sample ID: SS02

Lab Sample ID: 890-7585-2
Matrix: Solid
Date Collected: 01/20/25 09:41
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 11:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:58*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS02

Lab Sample ID: 890-7585-2
Matrix: Solid
Date Collected: 01/20/25 09:41
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:58*	*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			01/21/25 11:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/21/25 13:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/20/25 20:25	01/21/25 13:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/20/25 20:25	01/21/25 13:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/20/25 20:25	01/21/25 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:28*	*1*
o-Terphenyl	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**444**		10.1	mg/Kg			01/21/25 22:32	1

Client Sample ID: SS03

Lab Sample ID: 890-7585-3
Matrix: Solid
Date Collected: 01/20/25 09:47
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/21/25 08:00	01/21/25 12:18	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/21/25 08:00	01/21/25 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:18*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/21/25 12:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/21/25 13:43	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS03

Lab Sample ID: 890-7585-3
Matrix: Solid
Date Collected: 01/20/25 09:47
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 13:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 13:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:43*	*1*
o-Terphenyl	*82*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**322**		10.1		mg/Kg			01/21/25 22:37	1

Client Sample ID: SS04

Lab Sample ID: 890-7585-4
Matrix: Solid
Date Collected: 01/20/25 12:47
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 12:39	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:39*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:39*	*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			01/21/25 12:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 13:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 13:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 13:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:57*	*1*
o-Terphenyl	*72*		*70 - 130*	*01/20/25 20:25*	*01/21/25 13:57*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS04

Lab Sample ID: 890-7585-4
Matrix: Solid
Date Collected: 01/20/25 12:47
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	409		9.96		mg/Kg			01/21/25 22:54	1

Client Sample ID: SS05

Lab Sample ID: 890-7585-5
Matrix: Solid
Date Collected: 01/20/25 12:40
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 12:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:59*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 12:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/21/25 12:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 14:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 14:12	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 14:12	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:12*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		10.0		mg/Kg			01/21/25 23:00	1

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS06

Lab Sample ID: 890-7585-6
Matrix: Solid
Date Collected: 01/20/25 12:25
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 13:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 13:20*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 13:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/21/25 13:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 14:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 14:26	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 14:26	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:26*	*1*
o-Terphenyl	*86*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2990**		50.4		mg/Kg			01/21/25 23:06	5

Client Sample ID: SS07

Lab Sample ID: 890-7585-7
Matrix: Solid
Date Collected: 01/20/25 12:27
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 13:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:00	01/21/25 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/21/25 08:00*	*01/21/25 13:40*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS07

Lab Sample ID: 890-7585-7
Matrix: Solid
Date Collected: 01/20/25 12:27
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 13:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/21/25 13:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/21/25 14:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/20/25 20:25	01/21/25 14:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/20/25 20:25	01/21/25 14:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/20/25 20:25	01/21/25 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:39*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.5**		10.0	mg/Kg			01/21/25 23:11	1

Client Sample ID: SS08

Lab Sample ID: 890-7585-8
Matrix: Solid
Date Collected: 01/20/25 12:35
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 14:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/21/25 08:00	01/21/25 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:01*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/21/25 14:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/21/25 14:54	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS08

Lab Sample ID: 890-7585-8
Matrix: Solid
Date Collected: 01/20/25 12:35
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 14:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 14:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:54*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 14:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**221**		10.1		mg/Kg			01/21/25 23:17	1

Client Sample ID: SS09

Lab Sample ID: 890-7585-9
Matrix: Solid
Date Collected: 01/20/25 12:37
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 14:21	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:21*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/21/25 14:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/21/25 15:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 15:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 15:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:08*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS09

Lab Sample ID: 890-7585-9
Matrix: Solid
Date Collected: 01/20/25 12:37
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155		10.0		mg/Kg			01/21/25 23:23	1

Client Sample ID: SS10

Lab Sample ID: 890-7585-10
Matrix: Solid
Date Collected: 01/20/25 12:29
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 14:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:42*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 14:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/21/25 14:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 15:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:22	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:22	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:22*	*1*
o-Terphenyl	*82*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.3		10.1		mg/Kg			01/21/25 23:40	1

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS11

Lab Sample ID: 890-7585-11
Matrix: Solid
Date Collected: 01/20/25 12:22
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/21/25 08:00	01/21/25 16:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/21/25 08:00	01/21/25 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:09*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/21/25 16:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 15:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:51*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 15:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**529**		9.96		mg/Kg			01/21/25 23:45	1

Client Sample ID: SS12

Lab Sample ID: 890-7585-12
Matrix: Solid
Date Collected: 01/20/25 12:42
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 16:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:29*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS12

Lab Sample ID: 890-7585-12
Matrix: Solid
Date Collected: 01/20/25 12:42
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/21/25 16:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 16:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:05	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:05*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/22/25 00:02	1

Client Sample ID: SS13

Lab Sample ID: 890-7585-13
Matrix: Solid
Date Collected: 01/20/25 09:49
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 16:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:50*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 16:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/21/25 16:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 16:19	1

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS13

Lab Sample ID: 890-7585-13
Matrix: Solid
Date Collected: 01/20/25 09:49
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:19	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:19	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:19*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96		mg/Kg			01/22/25 00:08	1

Client Sample ID: SS14

Lab Sample ID: 890-7585-14
Matrix: Solid
Date Collected: 01/20/25 09:43
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 17:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/25 08:00	01/21/25 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:10*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/21/25 17:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/21/25 16:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 16:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/20/25 20:25	01/21/25 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:33*	*1*
o-Terphenyl	*74*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:33*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS14

Lab Sample ID: 890-7585-14
Matrix: Solid
Date Collected: 01/20/25 09:43
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/22/25 00:14	1

Client Sample ID: SS15

Lab Sample ID: 890-7585-15
Matrix: Solid
Date Collected: 01/20/25 09:37
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 17:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:30*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:30*	*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			01/21/25 17:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 16:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 16:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 16:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:47*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 16:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/22/25 00:19	1

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS16

Date Collected: 01/20/25 09:32
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Lab Sample ID: 890-7585-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 17:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:51*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/21/25 08:00*	*01/21/25 17:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/21/25 17:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/21/25 17:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/20/25 20:25	01/21/25 17:02	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/20/25 20:25	01/21/25 17:02	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/20/25 20:25	01/21/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:02*	*1*
o-Terphenyl	*80*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1		mg/Kg			01/22/25 00:25	1

Client Sample ID: SS17

Date Collected: 01/20/25 09:39
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Lab Sample ID: 890-7585-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/25 08:00	01/21/25 18:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/25 08:00	01/21/25 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:11*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS17

Lab Sample ID: 890-7585-17
Matrix: Solid
Date Collected: 01/20/25 09:39
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:11*	*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			01/21/25 18:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			01/21/25 17:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		01/20/25 20:25	01/21/25 17:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/20/25 20:25	01/21/25 17:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/20/25 20:25	01/21/25 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:15*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.2**		9.96	mg/Kg			01/22/25 00:31	1

Client Sample ID: SS18

Lab Sample ID: 890-7585-18
Matrix: Solid
Date Collected: 01/20/25 09:45
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/21/25 08:00	01/21/25 18:32	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/21/25 08:00	01/21/25 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:32*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/21/25 18:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/21/25 17:30	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS18

Lab Sample ID: 890-7585-18
Matrix: Solid
Date Collected: 01/20/25 09:45
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 17:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:30*	*1*
o-Terphenyl	*76*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.9**		9.98		mg/Kg			01/22/25 00:36	1

Client Sample ID: SS19

Lab Sample ID: 890-7585-19
Matrix: Solid
Date Collected: 01/20/25 12:44
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 18:52	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:52*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/21/25 08:00*	*01/21/25 18:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/21/25 18:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/21/25 17:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 17:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 17:44	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/20/25 20:25	01/21/25 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:44*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:44*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS19

Lab Sample ID: 890-7585-19
Matrix: Solid
Date Collected: 01/20/25 12:44
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.6		9.94		mg/Kg			01/21/25 18:45	1

Client Sample ID: SS20

Lab Sample ID: 890-7585-20
Matrix: Solid
Date Collected: 01/20/25 12:33
Date Received: 01/20/25 15:54
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/25 08:00	01/21/25 19:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/21/25 08:00	01/21/25 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/21/25 08:00*	*01/21/25 19:13*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*01/21/25 08:00*	*01/21/25 19:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/21/25 19:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/21/25 17:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 17:58	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 17:58	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/20/25 20:25	01/21/25 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:58*	*1*
o-Terphenyl	*74*		*70 - 130*	*01/20/25 20:25*	*01/21/25 17:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	122		10.0		mg/Kg			01/21/25 18:52	1

Surrogate Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7585-1	SS01	106	99
890-7585-1 MS	SS01	101	99
890-7585-1 MSD	SS01	99	100
890-7585-2	SS02	105	100
890-7585-3	SS03	109	99
890-7585-4	SS04	104	97
890-7585-5	SS05	107	99
890-7585-6	SS06	106	98
890-7585-7	SS07	113	98
890-7585-8	SS08	114	98
890-7585-9	SS09	102	98
890-7585-10	SS10	106	98
890-7585-11	SS11	110	99
890-7585-12	SS12	110	98
890-7585-13	SS13	106	98
890-7585-14	SS14	106	98
890-7585-15	SS15	104	98
890-7585-16	SS16	107	100
890-7585-17	SS17	106	98
890-7585-18	SS18	103	99
890-7585-19	SS19	104	98
890-7585-20	SS20	107	100
LCS 880-100726/1-A	Lab Control Sample	99	100
LCSD 880-100726/2-A	Lab Control Sample Dup	96	99
MB 880-100726/5-A	Method Blank	102	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7585-1	SS01	81	80
890-7585-1 MS	SS01	88	83
890-7585-1 MSD	SS01	88	83
890-7585-2	SS02	82	81
890-7585-3	SS03	85	82
890-7585-4	SS04	76	72
890-7585-5	SS05	80	77
890-7585-6	SS06	89	86
890-7585-7	SS07	81	78
890-7585-8	SS08	81	78
890-7585-9	SS09	80	76
890-7585-10	SS10	84	82
890-7585-11	SS11	79	78
890-7585-12	SS12	80	78

Surrogate Summary

Client: Ensolum Job ID: 890-7585-1
Project/Site: FLAHAND FNR FRACLINE SDG: 03D36001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
890-7585-13	SS13	82	79								
890-7585-14	SS14	77	74								
890-7585-15	SS15	79	78								
890-7585-16	SS16	81	80								
890-7585-17	SS17	78	77								
890-7585-18	SS18	78	76								
890-7585-19	SS19	84	83								
890-7585-20	SS20	74	74								
LCS 880-100717/2-A	Lab Control Sample	132 S1+	119								
LCSD 880-100717/3-A	Lab Control Sample Dup	125	115								
MB 880-100717/1-A	Method Blank	151 S1+	151 S1+								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-100726/5-A
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100726

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/25 08:00	01/21/25 11:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/21/25 08:00	01/21/25 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:16*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/21/25 08:00*	*01/21/25 11:16*	*1*

Lab Sample ID: LCS 880-100726/1-A
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100726

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09008		mg/Kg		90	70 - 130		
Toluene			0.100	0.09222		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09630		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.1810		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.09131		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-100726/2-A
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100726

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09097		mg/Kg		91	70 - 130	1	35
Toluene			0.100	0.09380		mg/Kg		94	70 - 130	2	35
Ethylbenzene			0.100	0.09694		mg/Kg		97	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1811		mg/Kg		91	70 - 130	0	35
o-Xylene			0.100	0.09126		mg/Kg		91	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7585-1 MS
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.08211		mg/Kg		82	70 - 130		
Toluene	<0.00202	U	0.100	0.08345		mg/Kg		83	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7585-1 MS
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100726

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.08505		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1597		mg/Kg		80	70 - 130
o-Xylene	<0.00202	U	0.100	0.08106		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 890-7585-1 MSD
Matrix: Solid
Analysis Batch: 100728

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100726

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08334		mg/Kg		83	70 - 130	1	35
Toluene	<0.00202	U	0.100	0.08539		mg/Kg		85	70 - 130	2	35
Ethylbenzene	<0.00202	U	0.100	0.08632		mg/Kg		86	70 - 130	1	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1611		mg/Kg		81	70 - 130	1	35
o-Xylene	<0.00202	U	0.100	0.08163		mg/Kg		82	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-100717/1-A
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 100717

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 05:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 05:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/25 20:25	01/21/25 05:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*01/20/25 20:25*	*01/21/25 05:32*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*01/20/25 20:25*	*01/21/25 05:32*	*1*

Lab Sample ID: LCS 880-100717/2-A
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100717

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	991.9		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1126		mg/Kg		113	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-100717/2-A
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 100717

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: LCSD 880-100717/3-A
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 100717

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	868.6		mg/Kg		87	70 - 130	13	20
Diesel Range Organics (Over C10-C28)			1000	1066		mg/Kg		107	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-7585-1 MS
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100717

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	801.2		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	819.4		mg/Kg		82	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 890-7585-1 MSD
Matrix: Solid
Analysis Batch: 100737

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 100717

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	798.6		mg/Kg		80	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	792.3		mg/Kg		79	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	83		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-100746/1-A
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/21/25 14:47	1

Lab Sample ID: LCS 880-100746/2-A
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.8		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-100746/3-A
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-53401-A-6-F MS
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	<9.96	U F1	249	280.6	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-53401-A-6-G MSD
Matrix: Solid
Analysis Batch: 100761

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<9.96	U F1	249	273.1		mg/Kg		109	90 - 110	3	20

Lab Sample ID: MB 880-100747/1-A
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			01/21/25 21:47	1

Lab Sample ID: LCS 880-100747/2-A
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.6		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-100747/3-A
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	255.9		mg/Kg		102	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-7585-9 MS
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: SS09
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	155		250	420.8		mg/Kg		106	90 - 110		

Lab Sample ID: 890-7585-9 MSD
Matrix: Solid
Analysis Batch: 100762

Client Sample ID: SS09
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	155		250	421.1		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

GC VOA

Prep Batch: 100726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	5035	
890-7585-2	SS02	Total/NA	Solid	5035	
890-7585-3	SS03	Total/NA	Solid	5035	
890-7585-4	SS04	Total/NA	Solid	5035	
890-7585-5	SS05	Total/NA	Solid	5035	
890-7585-6	SS06	Total/NA	Solid	5035	
890-7585-7	SS07	Total/NA	Solid	5035	
890-7585-8	SS08	Total/NA	Solid	5035	
890-7585-9	SS09	Total/NA	Solid	5035	
890-7585-10	SS10	Total/NA	Solid	5035	
890-7585-11	SS11	Total/NA	Solid	5035	
890-7585-12	SS12	Total/NA	Solid	5035	
890-7585-13	SS13	Total/NA	Solid	5035	
890-7585-14	SS14	Total/NA	Solid	5035	
890-7585-15	SS15	Total/NA	Solid	5035	
890-7585-16	SS16	Total/NA	Solid	5035	
890-7585-17	SS17	Total/NA	Solid	5035	
890-7585-18	SS18	Total/NA	Solid	5035	
890-7585-19	SS19	Total/NA	Solid	5035	
890-7585-20	SS20	Total/NA	Solid	5035	
MB 880-100726/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-100726/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-100726/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7585-1 MS	SS01	Total/NA	Solid	5035	
890-7585-1 MSD	SS01	Total/NA	Solid	5035	

Analysis Batch: 100728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	8021B	100726
890-7585-2	SS02	Total/NA	Solid	8021B	100726
890-7585-3	SS03	Total/NA	Solid	8021B	100726
890-7585-4	SS04	Total/NA	Solid	8021B	100726
890-7585-5	SS05	Total/NA	Solid	8021B	100726
890-7585-6	SS06	Total/NA	Solid	8021B	100726
890-7585-7	SS07	Total/NA	Solid	8021B	100726
890-7585-8	SS08	Total/NA	Solid	8021B	100726
890-7585-9	SS09	Total/NA	Solid	8021B	100726
890-7585-10	SS10	Total/NA	Solid	8021B	100726
890-7585-11	SS11	Total/NA	Solid	8021B	100726
890-7585-12	SS12	Total/NA	Solid	8021B	100726
890-7585-13	SS13	Total/NA	Solid	8021B	100726
890-7585-14	SS14	Total/NA	Solid	8021B	100726
890-7585-15	SS15	Total/NA	Solid	8021B	100726
890-7585-16	SS16	Total/NA	Solid	8021B	100726
890-7585-17	SS17	Total/NA	Solid	8021B	100726
890-7585-18	SS18	Total/NA	Solid	8021B	100726
890-7585-19	SS19	Total/NA	Solid	8021B	100726
890-7585-20	SS20	Total/NA	Solid	8021B	100726
MB 880-100726/5-A	Method Blank	Total/NA	Solid	8021B	100726
LCS 880-100726/1-A	Lab Control Sample	Total/NA	Solid	8021B	100726
LCSD 880-100726/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	100726

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

GC VOA (Continued)

Analysis Batch: 100728 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1 MS	SS01	Total/NA	Solid	8021B	100726
890-7585-1 MSD	SS01	Total/NA	Solid	8021B	100726

Analysis Batch: 100902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	Total BTEX	
890-7585-2	SS02	Total/NA	Solid	Total BTEX	
890-7585-3	SS03	Total/NA	Solid	Total BTEX	
890-7585-4	SS04	Total/NA	Solid	Total BTEX	
890-7585-5	SS05	Total/NA	Solid	Total BTEX	
890-7585-6	SS06	Total/NA	Solid	Total BTEX	
890-7585-7	SS07	Total/NA	Solid	Total BTEX	
890-7585-8	SS08	Total/NA	Solid	Total BTEX	
890-7585-9	SS09	Total/NA	Solid	Total BTEX	
890-7585-10	SS10	Total/NA	Solid	Total BTEX	
890-7585-11	SS11	Total/NA	Solid	Total BTEX	
890-7585-12	SS12	Total/NA	Solid	Total BTEX	
890-7585-13	SS13	Total/NA	Solid	Total BTEX	
890-7585-14	SS14	Total/NA	Solid	Total BTEX	
890-7585-15	SS15	Total/NA	Solid	Total BTEX	
890-7585-16	SS16	Total/NA	Solid	Total BTEX	
890-7585-17	SS17	Total/NA	Solid	Total BTEX	
890-7585-18	SS18	Total/NA	Solid	Total BTEX	
890-7585-19	SS19	Total/NA	Solid	Total BTEX	
890-7585-20	SS20	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 100717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	8015NM Prep	
890-7585-2	SS02	Total/NA	Solid	8015NM Prep	
890-7585-3	SS03	Total/NA	Solid	8015NM Prep	
890-7585-4	SS04	Total/NA	Solid	8015NM Prep	
890-7585-5	SS05	Total/NA	Solid	8015NM Prep	
890-7585-6	SS06	Total/NA	Solid	8015NM Prep	
890-7585-7	SS07	Total/NA	Solid	8015NM Prep	
890-7585-8	SS08	Total/NA	Solid	8015NM Prep	
890-7585-9	SS09	Total/NA	Solid	8015NM Prep	
890-7585-10	SS10	Total/NA	Solid	8015NM Prep	
890-7585-11	SS11	Total/NA	Solid	8015NM Prep	
890-7585-12	SS12	Total/NA	Solid	8015NM Prep	
890-7585-13	SS13	Total/NA	Solid	8015NM Prep	
890-7585-14	SS14	Total/NA	Solid	8015NM Prep	
890-7585-15	SS15	Total/NA	Solid	8015NM Prep	
890-7585-16	SS16	Total/NA	Solid	8015NM Prep	
890-7585-17	SS17	Total/NA	Solid	8015NM Prep	
890-7585-18	SS18	Total/NA	Solid	8015NM Prep	
890-7585-19	SS19	Total/NA	Solid	8015NM Prep	
890-7585-20	SS20	Total/NA	Solid	8015NM Prep	
MB 880-100717/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

GC Semi VOA (Continued)

Prep Batch: 100717 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-100717/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-100717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-7585-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-7585-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 100737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	8015B NM	100717
890-7585-2	SS02	Total/NA	Solid	8015B NM	100717
890-7585-3	SS03	Total/NA	Solid	8015B NM	100717
890-7585-4	SS04	Total/NA	Solid	8015B NM	100717
890-7585-5	SS05	Total/NA	Solid	8015B NM	100717
890-7585-6	SS06	Total/NA	Solid	8015B NM	100717
890-7585-7	SS07	Total/NA	Solid	8015B NM	100717
890-7585-8	SS08	Total/NA	Solid	8015B NM	100717
890-7585-9	SS09	Total/NA	Solid	8015B NM	100717
890-7585-10	SS10	Total/NA	Solid	8015B NM	100717
890-7585-11	SS11	Total/NA	Solid	8015B NM	100717
890-7585-12	SS12	Total/NA	Solid	8015B NM	100717
890-7585-13	SS13	Total/NA	Solid	8015B NM	100717
890-7585-14	SS14	Total/NA	Solid	8015B NM	100717
890-7585-15	SS15	Total/NA	Solid	8015B NM	100717
890-7585-16	SS16	Total/NA	Solid	8015B NM	100717
890-7585-17	SS17	Total/NA	Solid	8015B NM	100717
890-7585-18	SS18	Total/NA	Solid	8015B NM	100717
890-7585-19	SS19	Total/NA	Solid	8015B NM	100717
890-7585-20	SS20	Total/NA	Solid	8015B NM	100717
MB 880-100717/1-A	Method Blank	Total/NA	Solid	8015B NM	100717
LCS 880-100717/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	100717
LCSD 880-100717/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	100717
890-7585-1 MS	SS01	Total/NA	Solid	8015B NM	100717
890-7585-1 MSD	SS01	Total/NA	Solid	8015B NM	100717

Analysis Batch: 100888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Total/NA	Solid	8015 NM	
890-7585-2	SS02	Total/NA	Solid	8015 NM	
890-7585-3	SS03	Total/NA	Solid	8015 NM	
890-7585-4	SS04	Total/NA	Solid	8015 NM	
890-7585-5	SS05	Total/NA	Solid	8015 NM	
890-7585-6	SS06	Total/NA	Solid	8015 NM	
890-7585-7	SS07	Total/NA	Solid	8015 NM	
890-7585-8	SS08	Total/NA	Solid	8015 NM	
890-7585-9	SS09	Total/NA	Solid	8015 NM	
890-7585-10	SS10	Total/NA	Solid	8015 NM	
890-7585-11	SS11	Total/NA	Solid	8015 NM	
890-7585-12	SS12	Total/NA	Solid	8015 NM	
890-7585-13	SS13	Total/NA	Solid	8015 NM	
890-7585-14	SS14	Total/NA	Solid	8015 NM	
890-7585-15	SS15	Total/NA	Solid	8015 NM	
890-7585-16	SS16	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

GC Semi VOA (Continued)

Analysis Batch: 100888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-17	SS17	Total/NA	Solid	8015 NM	
890-7585-18	SS18	Total/NA	Solid	8015 NM	
890-7585-19	SS19	Total/NA	Solid	8015 NM	
890-7585-20	SS20	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 100746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-19	SS19	Soluble	Solid	DI Leach	
890-7585-20	SS20	Soluble	Solid	DI Leach	
MB 880-100746/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100746/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100746/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53401-A-6-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-53401-A-6-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 100747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Soluble	Solid	DI Leach	
890-7585-2	SS02	Soluble	Solid	DI Leach	
890-7585-3	SS03	Soluble	Solid	DI Leach	
890-7585-4	SS04	Soluble	Solid	DI Leach	
890-7585-5	SS05	Soluble	Solid	DI Leach	
890-7585-6	SS06	Soluble	Solid	DI Leach	
890-7585-7	SS07	Soluble	Solid	DI Leach	
890-7585-8	SS08	Soluble	Solid	DI Leach	
890-7585-9	SS09	Soluble	Solid	DI Leach	
890-7585-10	SS10	Soluble	Solid	DI Leach	
890-7585-11	SS11	Soluble	Solid	DI Leach	
890-7585-12	SS12	Soluble	Solid	DI Leach	
890-7585-13	SS13	Soluble	Solid	DI Leach	
890-7585-14	SS14	Soluble	Solid	DI Leach	
890-7585-15	SS15	Soluble	Solid	DI Leach	
890-7585-16	SS16	Soluble	Solid	DI Leach	
890-7585-17	SS17	Soluble	Solid	DI Leach	
890-7585-18	SS18	Soluble	Solid	DI Leach	
MB 880-100747/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-100747/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-100747/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-7585-9 MS	SS09	Soluble	Solid	DI Leach	
890-7585-9 MSD	SS09	Soluble	Solid	DI Leach	

Analysis Batch: 100761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-19	SS19	Soluble	Solid	300.0	100746
890-7585-20	SS20	Soluble	Solid	300.0	100746
MB 880-100746/1-A	Method Blank	Soluble	Solid	300.0	100746
LCS 880-100746/2-A	Lab Control Sample	Soluble	Solid	300.0	100746
LCSD 880-100746/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100746
880-53401-A-6-F MS	Matrix Spike	Soluble	Solid	300.0	100746

QC Association Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

HPLC/IC (Continued)

Analysis Batch: 100761 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53401-A-6-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	100746

Analysis Batch: 100762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7585-1	SS01	Soluble	Solid	300.0	100747
890-7585-2	SS02	Soluble	Solid	300.0	100747
890-7585-3	SS03	Soluble	Solid	300.0	100747
890-7585-4	SS04	Soluble	Solid	300.0	100747
890-7585-5	SS05	Soluble	Solid	300.0	100747
890-7585-6	SS06	Soluble	Solid	300.0	100747
890-7585-7	SS07	Soluble	Solid	300.0	100747
890-7585-8	SS08	Soluble	Solid	300.0	100747
890-7585-9	SS09	Soluble	Solid	300.0	100747
890-7585-10	SS10	Soluble	Solid	300.0	100747
890-7585-11	SS11	Soluble	Solid	300.0	100747
890-7585-12	SS12	Soluble	Solid	300.0	100747
890-7585-13	SS13	Soluble	Solid	300.0	100747
890-7585-14	SS14	Soluble	Solid	300.0	100747
890-7585-15	SS15	Soluble	Solid	300.0	100747
890-7585-16	SS16	Soluble	Solid	300.0	100747
890-7585-17	SS17	Soluble	Solid	300.0	100747
890-7585-18	SS18	Soluble	Solid	300.0	100747
MB 880-100747/1-A	Method Blank	Soluble	Solid	300.0	100747
LCS 880-100747/2-A	Lab Control Sample	Soluble	Solid	300.0	100747
LCSD 880-100747/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	100747
890-7585-9 MS	SS09	Soluble	Solid	300.0	100747
890-7585-9 MSD	SS09	Soluble	Solid	300.0	100747

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS01

Lab Sample ID: 890-7585-1
Matrix: Solid
Date Collected: 01/20/25 09:35
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 11:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 11:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 12:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 12:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 22:26	CH	EET MID

Client Sample ID: SS02

Lab Sample ID: 890-7585-2
Matrix: Solid
Date Collected: 01/20/25 09:41
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 11:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 11:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 13:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 13:28	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 22:32	CH	EET MID

Client Sample ID: SS03

Lab Sample ID: 890-7585-3
Matrix: Solid
Date Collected: 01/20/25 09:47
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 12:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 12:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 13:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 13:43	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 22:37	CH	EET MID

Client Sample ID: SS04

Lab Sample ID: 890-7585-4
Matrix: Solid
Date Collected: 01/20/25 12:47
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 12:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 12:39	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS04
Date Collected: 01/20/25 12:47
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100888	01/21/25 13:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 13:57	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 22:54	CH	EET MID

Client Sample ID: SS05
Date Collected: 01/20/25 12:40
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 12:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 12:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 14:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 14:12	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:00	CH	EET MID

Client Sample ID: SS06
Date Collected: 01/20/25 12:25
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 13:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 13:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 14:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 14:26	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		5	50 mL	50 mL	100762	01/21/25 23:06	CH	EET MID

Client Sample ID: SS07
Date Collected: 01/20/25 12:27
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 13:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 13:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 14:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 14:39	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS07

Date Collected: 01/20/25 12:27
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:11	CH	EET MID

Client Sample ID: SS08

Date Collected: 01/20/25 12:35
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 14:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 14:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 14:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 14:54	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:17	CH	EET MID

Client Sample ID: SS09

Date Collected: 01/20/25 12:37
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 14:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 15:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 15:08	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:23	CH	EET MID

Client Sample ID: SS10

Date Collected: 01/20/25 12:29
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 14:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 14:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 15:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 15:22	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:40	CH	EET MID

Lab Chronicle

Client: Ensolum
Job ID: 890-7585-1
Project/Site: FLAHAND FNR FRACLINE
SDG: 03D36001

Client Sample ID: SS11
Lab Sample ID: 890-7585-11
Date Collected: 01/20/25 12:22
Matrix: Solid
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 16:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 16:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 15:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 15:51	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/21/25 23:45	CH	EET MID

Client Sample ID: SS12
Lab Sample ID: 890-7585-12
Date Collected: 01/20/25 12:42
Matrix: Solid
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 16:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 16:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 16:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 16:05	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:02	CH	EET MID

Client Sample ID: SS13
Lab Sample ID: 890-7585-13
Date Collected: 01/20/25 09:49
Matrix: Solid
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 16:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 16:19	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:08	CH	EET MID

Client Sample ID: SS14
Lab Sample ID: 890-7585-14
Date Collected: 01/20/25 09:43
Matrix: Solid
Date Received: 01/20/25 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 17:10	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS14

Date Collected: 01/20/25 09:43
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			100888	01/21/25 16:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 16:33	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:14	CH	EET MID

Client Sample ID: SS15

Date Collected: 01/20/25 09:37
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 17:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 17:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 16:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 16:47	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:19	CH	EET MID

Client Sample ID: SS16

Date Collected: 01/20/25 09:32
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 17:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:02	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:25	CH	EET MID

Client Sample ID: SS17

Date Collected: 01/20/25 09:39
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 18:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 18:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:15	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Client Sample ID: SS17

Date Collected: 01/20/25 09:39
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:31	CH	EET MID

Client Sample ID: SS18

Date Collected: 01/20/25 09:45
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 18:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 18:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	100747	01/21/25 09:09	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100762	01/22/25 00:36	CH	EET MID

Client Sample ID: SS19

Date Collected: 01/20/25 12:44
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 18:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 18:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:44	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	100746	01/21/25 09:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100761	01/21/25 18:45	CH	EET MID

Client Sample ID: SS20

Date Collected: 01/20/25 12:33
Date Received: 01/20/25 15:54

Lab Sample ID: 890-7585-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	100726	01/21/25 08:00	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	100728	01/21/25 19:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			100902	01/21/25 19:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			100888	01/21/25 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	100717	01/20/25 20:25	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	100737	01/21/25 17:58	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	100746	01/21/25 09:03	SI	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	100761	01/21/25 18:52	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLAHAND FNR FRACLINE

Job ID: 890-7585-1
SDG: 03D36001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7585-1	SS01	Solid	01/20/25 09:35	01/20/25 15:54	0.5
890-7585-2	SS02	Solid	01/20/25 09:41	01/20/25 15:54	0.5
890-7585-3	SS03	Solid	01/20/25 09:47	01/20/25 15:54	0.5
890-7585-4	SS04	Solid	01/20/25 12:47	01/20/25 15:54	0.5
890-7585-5	SS05	Solid	01/20/25 12:40	01/20/25 15:54	0.5
890-7585-6	SS06	Solid	01/20/25 12:25	01/20/25 15:54	0.5
890-7585-7	SS07	Solid	01/20/25 12:27	01/20/25 15:54	0.5
890-7585-8	SS08	Solid	01/20/25 12:35	01/20/25 15:54	0.5
890-7585-9	SS09	Solid	01/20/25 12:37	01/20/25 15:54	0.5
890-7585-10	SS10	Solid	01/20/25 12:29	01/20/25 15:54	0.5
890-7585-11	SS11	Solid	01/20/25 12:22	01/20/25 15:54	0.5
890-7585-12	SS12	Solid	01/20/25 12:42	01/20/25 15:54	0.5
890-7585-13	SS13	Solid	01/20/25 09:49	01/20/25 15:54	0.5
890-7585-14	SS14	Solid	01/20/25 09:43	01/20/25 15:54	0.5
890-7585-15	SS15	Solid	01/20/25 09:37	01/20/25 15:54	0.5
890-7585-16	SS16	Solid	01/20/25 09:32	01/20/25 15:54	0.5
890-7585-17	SS17	Solid	01/20/25 09:39	01/20/25 15:54	0.5
890-7585-18	SS18	Solid	01/20/25 09:45	01/20/25 15:54	0.5
890-7585-19	SS19	Solid	01/20/25 12:44	01/20/25 15:54	0.5
890-7585-20	SS20	Solid	01/20/25 12:33	01/20/25 15:54	0.5

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902
Midland, TX (432) 704-5440, San Antonio, TX (210) 5
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 7
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-7585 Chain of Custody

): 03D3836001

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1/22/2025

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project: NM
Reporting: Level II ☑ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☑ ADaPT ☐ Other:

Project Name:	FlatHand FNR FracLine	**Turn Around**	☑ Routine ☐ Rush
Project Number:	03D36001	Due Date:	
Project Location:	32.304886, -103.859709	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Bowan Simmons		
PO #:	03D36001		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR#007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.7
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.6
Total Containers:		Corrected Temperature:	0.4

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS01	Soil	1/20/25	9:35	0.5'	G	1		✓	✓	✓	
SS02	Soil		9:41					✓	✓	✓	
SS03	Soil		9:47					✓	✓	✓	
SS04	Soil		12:47					✓	✓	✓	
SS05	Soil		12:40					✓	✓	✓	
SS06	Soil		12:25					✓	✓	✓	
SS07	Soil		12:27					✓	✓	✓	
SS08	Soil		12:35					✓	✓	✓	
SS09	Soil		12:37					✓	✓	✓	
SS10	Soil		12:29					✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/20 15:54	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 03D3836001

1/22/2025

www.xenco.com Page 2 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project: NM
Reporting: Level II ☑ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☑ ADaPT ☐ Other:

Project Name:	Flathead FNR FracLine	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	32.30486, -103.89709	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Bowan Simmons		
PO #:	03D3836001		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS11	Soil	1/20/25	12:22	0.5'	G	1		✓	✓	✓	
SS12			12:42					✓	✓	✓	
SS13			9:49					✓	✓	✓	
SS14			9:43					✓	✓	✓	
SS15			9:37					✓	✓	✓	
SS16			9:32					✓	✓	✓	
SS17			9:39					✓	✓	✓	
SS18			9:45					✓	✓	✓	
SS19			12:44					✓	✓	✓	
SS20			12:33					✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/20 15:54	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7585-1
SDG Number: 03D36001

Login Number: 7585
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7585-1
SDG Number: 03D36001

Login Number: 7585
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 01/20/25 09:14 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").		

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/3/2025 1:34:07 PM

JOB DESCRIPTION

Flatline Frac
Eddy Co, NM

JOB NUMBER

880-53820-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

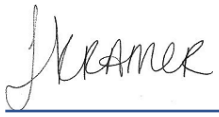
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Client: Ensolum
Project/Site: Flatline Frac

Laboratory Job ID: 880-53820-1
SDG: Eddy Co, NM

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Definitions/Glossary

Client: Ensolum Job ID: 880-53820-1
Project/Site: Flatline Frac SDG: Eddy Co, NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-53820-1
Project: Flatline Frac

Job ID: 880-53820-1 Eurofins Midland

Job Narrative
880-53820-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/30/2025 8:10 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS-01 (880-53820-1), SS-02 (880-53820-2), SS-03 (880-53820-3), SS-04 (880-53820-4), SS-05 (880-53820-5), SS-06 (880-53820-6), SS-06 (880-53820-7), SS-07 (880-53820-8) and SS-08 (880-53820-9).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-101560 and 880-101561 and analytical batch 880-101726 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS-02 (880-53820-2), SS-03 (880-53820-3), SS-04 (880-53820-4), SS-05 (880-53820-5), SS-06 (880-53820-6), SS-06 (880-53820-7), SS-07 (880-53820-8), (890-7607-A-21-A), (890-7607-A-21-B MS), (890-7607-A-21-C MSD), (880-53820-A-4-B MS) and (880-53820-A-4-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: SS-01 (880-53820-1). Percent recoveries are based on the amount spiked.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-101615 and analytical batch 880-101676 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-01

Date Collected: 01/29/25 10:50
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/30/25 08:51	01/30/25 14:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/30/25 08:51	01/30/25 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/30/25 08:51*	*01/30/25 14:49*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/30/25 08:51*	*01/30/25 14:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/30/25 14:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/31/25 23:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 23:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 23:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*162*	*S1+*	*70 - 130*	*01/30/25 09:00*	*01/31/25 23:41*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*01/30/25 09:00*	*01/31/25 23:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13.8**	**F1**	9.98		mg/Kg			02/01/25 20:00	1

Client Sample ID: SS-02

Date Collected: 01/29/25 11:48
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 15:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 15:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 15:10	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/30/25 08:51	01/30/25 15:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 15:10	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/30/25 08:51	01/30/25 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/30/25 08:51*	*01/30/25 15:10*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/30/25 08:51*	*01/30/25 15:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-02

Date Collected: 01/29/25 11:48
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/30/25 15:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/31/25 23:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/30/25 09:00	01/31/25 23:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/30/25 09:00	01/31/25 23:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/30/25 09:00	01/31/25 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*01/30/25 09:00*	*01/31/25 23:57*	*1*
o-Terphenyl	*113*		*70 - 130*	*01/30/25 09:00*	*01/31/25 23:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17.6**		9.94		mg/Kg			02/01/25 20:18	1

Client Sample ID: SS-03

Date Collected: 01/29/25 11:45
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/30/25 08:51*	*01/30/25 16:34*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/30/25 08:51*	*01/30/25 16:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/30/25 16:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/01/25 00:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/30/25 09:00	02/01/25 00:13	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/30/25 09:00	02/01/25 00:13	1

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-03

Date Collected: 01/29/25 11:45
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/30/25 09:00	02/01/25 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*01/30/25 09:00*	*02/01/25 00:13*	*1*
o-Terphenyl	*108*		*70 - 130*	*01/30/25 09:00*	*02/01/25 00:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**827**		10.0		mg/Kg			02/01/25 20:24	1

Client Sample ID: SS-04

Date Collected: 01/29/25 11:52
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 16:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*01/30/25 08:51*	*01/30/25 16:54*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/30/25 08:51*	*01/30/25 16:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/30/25 16:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/25 02:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/30/25 09:07	02/01/25 02:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/25 09:07	02/01/25 02:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/25 09:07	02/01/25 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*155*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 02:18*	*1*
o-Terphenyl	*125*		*70 - 130*	*01/30/25 09:07*	*02/01/25 02:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**592**		10.1		mg/Kg			02/01/25 20:30	1

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-05

Lab Sample ID: 880-53820-5
Date Collected: 01/29/25 10:38
Matrix: Solid
Date Received: 01/30/25 08:10

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		01/30/25 08:51	01/30/25 17:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 17:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 17:15	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/30/25 08:51	01/30/25 17:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 17:15	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/30/25 08:51	01/30/25 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:15*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/30/25 17:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/01/25 03:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 03:06*	*1*
o-Terphenyl	*123*		*70 - 130*	*01/30/25 09:07*	*02/01/25 03:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**174**		9.96		mg/Kg			02/01/25 20:36	1

Client Sample ID: SS-06

Lab Sample ID: 880-53820-6
Date Collected: 01/29/25 11:30
Matrix: Solid
Date Received: 01/30/25 08:10

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:35	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/30/25 08:51	01/30/25 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:35*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:35*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-06

Date Collected: 01/29/25 11:30
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/30/25 17:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/01/25 03:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 03:21*	*1*
o-Terphenyl	*122*		*70 - 130*	*01/30/25 09:07*	*02/01/25 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		9.94		mg/Kg			02/01/25 20:53	1

Client Sample ID: SS-06

Date Collected: 01/29/25 11:33
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/30/25 08:51	01/30/25 17:56	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/30/25 08:51	01/30/25 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:56*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/30/25 08:51*	*01/30/25 17:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			01/30/25 17:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/01/25 03:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:37	1

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-06

Lab Sample ID: 880-53820-7
Date Collected: 01/29/25 11:33
Matrix: Solid
Date Received: 01/30/25 08:10

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/30/25 09:07	02/01/25 03:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 03:37*	*1*
o-Terphenyl	*111*		*70 - 130*	*01/30/25 09:07*	*02/01/25 03:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**374**		9.92		mg/Kg			02/01/25 20:59	1

Client Sample ID: SS-07

Lab Sample ID: 880-53820-8
Date Collected: 01/29/25 10:35
Matrix: Solid
Date Received: 01/30/25 08:10

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/30/25 08:51	01/30/25 18:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/30/25 08:51	01/30/25 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/30/25 08:51*	*01/30/25 18:16*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*01/30/25 08:51*	*01/30/25 18:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/30/25 18:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/01/25 03:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:53	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:53	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/30/25 09:07	02/01/25 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*01/30/25 09:07*	*02/01/25 03:53*	*1*
o-Terphenyl	*116*		*70 - 130*	*01/30/25 09:07*	*02/01/25 03:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.3**		10.0		mg/Kg			02/01/25 21:05	1

Client Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-08

Date Collected: 01/29/25 10:30
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-9

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 18:37	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/30/25 08:51	01/30/25 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/30/25 08:51*	*01/30/25 18:37*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/30/25 08:51*	*01/30/25 18:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/30/25 18:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/01/25 04:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/30/25 09:07	02/01/25 04:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/30/25 09:07	02/01/25 04:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/30/25 09:07	02/01/25 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*01/30/25 09:07*	*02/01/25 04:08*	*1*
o-Terphenyl	*109*		*70 - 130*	*01/30/25 09:07*	*02/01/25 04:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**315**		9.94		mg/Kg			02/01/25 21:11	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-53820-1	SS-01	95	93										
880-53820-2	SS-02	96	92										
880-53820-3	SS-03	95	91										
880-53820-4	SS-04	95	93										
880-53820-5	SS-05	96	91										
880-53820-6	SS-06	96	93										
880-53820-7	SS-06	92	92										
880-53820-8	SS-07	96	79										
880-53820-9	SS-08	97	90										
LCS 880-101557/1-A	Lab Control Sample	93	93										
LCSD 880-101557/2-A	Lab Control Sample Dup	98	103										
MB 880-101557/5-A	Method Blank	94	91										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-53820-1	SS-01	162 S1+	132 S1+										
880-53820-2	SS-02	135 S1+	113										
880-53820-3	SS-03	131 S1+	108										
880-53820-4	SS-04	155 S1+	125										
880-53820-4 MS	SS-04	138 S1+	127										
880-53820-4 MSD	SS-04	136 S1+	123										
880-53820-5	SS-05	151 S1+	123										
880-53820-6	SS-06	151 S1+	122										
880-53820-7	SS-06	135 S1+	111										
880-53820-8	SS-07	140 S1+	116										
880-53820-9	SS-08	130	109										
LCS 880-101560/2-A	Lab Control Sample	125	117										
LCS 880-101561/2-A	Lab Control Sample	130	122										
LCSD 880-101560/3-A	Lab Control Sample Dup	130	119										
LCSD 880-101561/3-A	Lab Control Sample Dup	127	118										
MB 880-101560/1-A	Method Blank	144 S1+	125										
MB 880-101561/1-A	Method Blank	156 S1+	128										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-101557/5-A
Matrix: Solid
Analysis Batch: 101550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101557

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/30/25 08:51	01/30/25 11:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/30/25 08:51	01/30/25 11:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*01/30/25 08:51*	*01/30/25 11:43*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/30/25 08:51*	*01/30/25 11:43*	*1*

Lab Sample ID: LCS 880-101557/1-A
Matrix: Solid
Analysis Batch: 101550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101557

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09098		mg/Kg		91	70 - 130		
Toluene			0.100	0.09625		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09378		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1811		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.08837		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-101557/2-A
Matrix: Solid
Analysis Batch: 101550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101557

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09870		mg/Kg		99	70 - 130	8	35
Toluene			0.100	0.1018		mg/Kg		102	70 - 130	6	35
Ethylbenzene			0.100	0.09952		mg/Kg		100	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1941		mg/Kg		97	70 - 130	7	35
o-Xylene			0.100	0.09392		mg/Kg		94	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-101560/1-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101560

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 17:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 17:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/25 09:00	01/31/25 17:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*01/30/25 09:00*	*01/31/25 17:35*	*1*
o-Terphenyl	*125*		*70 - 130*	*01/30/25 09:00*	*01/31/25 17:35*	*1*

Lab Sample ID: LCS 880-101560/2-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101560

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1055		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1089		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*125*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Lab Sample ID: LCSD 880-101560/3-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101560

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1060		mg/Kg		106	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	1109		mg/Kg		111	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*130*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: MB 880-101561/1-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101561

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/30/25 09:06	02/01/25 01:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/30/25 09:06	02/01/25 01:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/30/25 09:06	02/01/25 01:31	1

QC Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-101561/1-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 101561

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	156	S1+	70 - 130	01/30/25 09:06	02/01/25 01:31	1
o-Terphenyl	128		70 - 130	01/30/25 09:06	02/01/25 01:31	1

Lab Sample ID: LCS 880-101561/2-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 101561

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1116		mg/Kg		112	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1126		mg/Kg		113	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	130		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: LCSD 880-101561/3-A
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 101561

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1107		mg/Kg		111	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1108		mg/Kg		111	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 880-53820-4 MS
Matrix: Solid
Analysis Batch: 101726

Client Sample ID: SS-04
Prep Type: Total/NA
Prep Batch: 101561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1216		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1159		mg/Kg		116	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	138	S1+	70 - 130
o-Terphenyl	127		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-53820-4 MSD — **Client Sample ID: SS-04**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 101726 — **Prep Batch: 101561**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1222		mg/Kg		122	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	1121		mg/Kg		112	70 - 130	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*136*	*S1+*	*70 - 130*
o-Terphenyl	*123*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-101615/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			02/01/25 19:43	1

Lab Sample ID: LCS 880-101615/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	274.6		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-101615/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	275.1		mg/Kg		110	90 - 110	0	20

Lab Sample ID: 880-53820-1 MS — **Client Sample ID: SS-01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	13.8	F1	250	328.1	F1	mg/Kg		126	90 - 110		

Lab Sample ID: 880-53820-1 MSD — **Client Sample ID: SS-01**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 101676

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	13.8	F1	250	342.8	F1	mg/Kg		132	90 - 110	4	20

QC Association Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

GC VOA

Analysis Batch: 101550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	8021B	101557
880-53820-2	SS-02	Total/NA	Solid	8021B	101557
880-53820-3	SS-03	Total/NA	Solid	8021B	101557
880-53820-4	SS-04	Total/NA	Solid	8021B	101557
880-53820-5	SS-05	Total/NA	Solid	8021B	101557
880-53820-6	SS-06	Total/NA	Solid	8021B	101557
880-53820-7	SS-06	Total/NA	Solid	8021B	101557
880-53820-8	SS-07	Total/NA	Solid	8021B	101557
880-53820-9	SS-08	Total/NA	Solid	8021B	101557
MB 880-101557/5-A	Method Blank	Total/NA	Solid	8021B	101557
LCS 880-101557/1-A	Lab Control Sample	Total/NA	Solid	8021B	101557
LCSD 880-101557/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	101557

Prep Batch: 101557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	5035	
880-53820-2	SS-02	Total/NA	Solid	5035	
880-53820-3	SS-03	Total/NA	Solid	5035	
880-53820-4	SS-04	Total/NA	Solid	5035	
880-53820-5	SS-05	Total/NA	Solid	5035	
880-53820-6	SS-06	Total/NA	Solid	5035	
880-53820-7	SS-06	Total/NA	Solid	5035	
880-53820-8	SS-07	Total/NA	Solid	5035	
880-53820-9	SS-08	Total/NA	Solid	5035	
MB 880-101557/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-101557/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-101557/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 101739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	Total BTEX	
880-53820-2	SS-02	Total/NA	Solid	Total BTEX	
880-53820-3	SS-03	Total/NA	Solid	Total BTEX	
880-53820-4	SS-04	Total/NA	Solid	Total BTEX	
880-53820-5	SS-05	Total/NA	Solid	Total BTEX	
880-53820-6	SS-06	Total/NA	Solid	Total BTEX	
880-53820-7	SS-06	Total/NA	Solid	Total BTEX	
880-53820-8	SS-07	Total/NA	Solid	Total BTEX	
880-53820-9	SS-08	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 101560

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	8015NM Prep	
880-53820-2	SS-02	Total/NA	Solid	8015NM Prep	
880-53820-3	SS-03	Total/NA	Solid	8015NM Prep	
MB 880-101560/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101560/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101560/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

GC Semi VOA

Prep Batch: 101561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-4	SS-04	Total/NA	Solid	8015NM Prep	
880-53820-5	SS-05	Total/NA	Solid	8015NM Prep	
880-53820-6	SS-06	Total/NA	Solid	8015NM Prep	
880-53820-7	SS-06	Total/NA	Solid	8015NM Prep	
880-53820-8	SS-07	Total/NA	Solid	8015NM Prep	
880-53820-9	SS-08	Total/NA	Solid	8015NM Prep	
MB 880-101561/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-101561/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-101561/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-53820-4 MS	SS-04	Total/NA	Solid	8015NM Prep	
880-53820-4 MSD	SS-04	Total/NA	Solid	8015NM Prep	

Analysis Batch: 101726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	8015B NM	101560
880-53820-2	SS-02	Total/NA	Solid	8015B NM	101560
880-53820-3	SS-03	Total/NA	Solid	8015B NM	101560
880-53820-4	SS-04	Total/NA	Solid	8015B NM	101561
880-53820-5	SS-05	Total/NA	Solid	8015B NM	101561
880-53820-6	SS-06	Total/NA	Solid	8015B NM	101561
880-53820-7	SS-06	Total/NA	Solid	8015B NM	101561
880-53820-8	SS-07	Total/NA	Solid	8015B NM	101561
880-53820-9	SS-08	Total/NA	Solid	8015B NM	101561
MB 880-101560/1-A	Method Blank	Total/NA	Solid	8015B NM	101560
MB 880-101561/1-A	Method Blank	Total/NA	Solid	8015B NM	101561
LCS 880-101560/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101560
LCS 880-101561/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	101561
LCSD 880-101560/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101560
LCSD 880-101561/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	101561
880-53820-4 MS	SS-04	Total/NA	Solid	8015B NM	101561
880-53820-4 MSD	SS-04	Total/NA	Solid	8015B NM	101561

Analysis Batch: 101879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Total/NA	Solid	8015 NM	
880-53820-2	SS-02	Total/NA	Solid	8015 NM	
880-53820-3	SS-03	Total/NA	Solid	8015 NM	
880-53820-4	SS-04	Total/NA	Solid	8015 NM	
880-53820-5	SS-05	Total/NA	Solid	8015 NM	
880-53820-6	SS-06	Total/NA	Solid	8015 NM	
880-53820-7	SS-06	Total/NA	Solid	8015 NM	
880-53820-8	SS-07	Total/NA	Solid	8015 NM	
880-53820-9	SS-08	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 101615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Soluble	Solid	DI Leach	
880-53820-2	SS-02	Soluble	Solid	DI Leach	
880-53820-3	SS-03	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

HPLC/IC (Continued)

Leach Batch: 101615 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-4	SS-04	Soluble	Solid	DI Leach	
880-53820-5	SS-05	Soluble	Solid	DI Leach	
880-53820-6	SS-06	Soluble	Solid	DI Leach	
880-53820-7	SS-06	Soluble	Solid	DI Leach	
880-53820-8	SS-07	Soluble	Solid	DI Leach	
880-53820-9	SS-08	Soluble	Solid	DI Leach	
MB 880-101615/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-101615/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-101615/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-53820-1 MS	SS-01	Soluble	Solid	DI Leach	
880-53820-1 MSD	SS-01	Soluble	Solid	DI Leach	

Analysis Batch: 101676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-53820-1	SS-01	Soluble	Solid	300.0	101615
880-53820-2	SS-02	Soluble	Solid	300.0	101615
880-53820-3	SS-03	Soluble	Solid	300.0	101615
880-53820-4	SS-04	Soluble	Solid	300.0	101615
880-53820-5	SS-05	Soluble	Solid	300.0	101615
880-53820-6	SS-06	Soluble	Solid	300.0	101615
880-53820-7	SS-06	Soluble	Solid	300.0	101615
880-53820-8	SS-07	Soluble	Solid	300.0	101615
880-53820-9	SS-08	Soluble	Solid	300.0	101615
MB 880-101615/1-A	Method Blank	Soluble	Solid	300.0	101615
LCS 880-101615/2-A	Lab Control Sample	Soluble	Solid	300.0	101615
LCSD 880-101615/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	101615
880-53820-1 MS	SS-01	Soluble	Solid	300.0	101615
880-53820-1 MSD	SS-01	Soluble	Solid	300.0	101615

Lab Chronicle

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-01

Lab Sample ID: 880-53820-1
Matrix: Solid
Date Collected: 01/29/25 10:50
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 14:49
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 14:49
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	01/31/25 23:41
Total/NA	Prep	8015NM Prep			101560	EL	EET MID	01/30/25 09:00
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	01/31/25 23:41
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:00

Client Sample ID: SS-02

Lab Sample ID: 880-53820-2
Matrix: Solid
Date Collected: 01/29/25 11:48
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 15:10
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 15:10
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	01/31/25 23:57
Total/NA	Prep	8015NM Prep			101560	EL	EET MID	01/30/25 09:00
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	01/31/25 23:57
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:18

Client Sample ID: SS-03

Lab Sample ID: 880-53820-3
Matrix: Solid
Date Collected: 01/29/25 11:45
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 16:34
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 16:34
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 00:13
Total/NA	Prep	8015NM Prep			101560	EL	EET MID	01/30/25 09:00
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 00:13
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:24

Client Sample ID: SS-04

Lab Sample ID: 880-53820-4
Matrix: Solid
Date Collected: 01/29/25 11:52
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 16:54
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 16:54

Lab Chronicle

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-04
Date Collected: 01/29/25 11:52
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 02:18
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 02:18
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:30

Client Sample ID: SS-05
Date Collected: 01/29/25 10:38
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 17:15
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 17:15
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 03:06
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 03:06
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:36

Client Sample ID: SS-06
Date Collected: 01/29/25 11:30
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 17:35
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 17:35
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 03:21
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 03:21
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:53

Client Sample ID: SS-06
Date Collected: 01/29/25 11:33
Date Received: 01/30/25 08:10

Lab Sample ID: 880-53820-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 17:56
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 17:56
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 03:37
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 03:37

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Client Sample ID: SS-06

Lab Sample ID: 880-53820-7
Matrix: Solid
Date Collected: 01/29/25 11:33
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 20:59

Client Sample ID: SS-07

Lab Sample ID: 880-53820-8
Matrix: Solid
Date Collected: 01/29/25 10:35
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 18:16
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 18:16
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 03:53
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 03:53
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 21:05

Client Sample ID: SS-08

Lab Sample ID: 880-53820-9
Matrix: Solid
Date Collected: 01/29/25 10:30
Date Received: 01/30/25 08:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			101557	MNR	EET MID	01/30/25 08:51
Total/NA	Analysis	8021B		1	101550	MNR	EET MID	01/30/25 18:37
Total/NA	Analysis	Total BTEX		1	101739	AJ	EET MID	01/30/25 18:37
Total/NA	Analysis	8015 NM		1	101879	AJ	EET MID	02/01/25 04:08
Total/NA	Prep	8015NM Prep			101561	EL	EET MID	01/30/25 09:07
Total/NA	Analysis	8015B NM		1	101726	TKC	EET MID	02/01/25 04:08
Soluble	Leach	DI Leach			101615	SA	EET MID	01/30/25 11:31
Soluble	Analysis	300.0		1	101676	CH	EET MID	02/01/25 21:11

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatline Frac

Job ID: 880-53820-1
SDG: Eddy Co, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-53820-1	SS-01	Solid	01/29/25 10:50	01/30/25 08:10
880-53820-2	SS-02	Solid	01/29/25 11:48	01/30/25 08:10
880-53820-3	SS-03	Solid	01/29/25 11:45	01/30/25 08:10
880-53820-4	SS-04	Solid	01/29/25 11:52	01/30/25 08:10
880-53820-5	SS-05	Solid	01/29/25 10:38	01/30/25 08:10
880-53820-6	SS-06	Solid	01/29/25 11:30	01/30/25 08:10
880-53820-7	SS-06	Solid	01/29/25 11:33	01/30/25 08:10
880-53820-8	SS-07	Solid	01/29/25 10:35	01/30/25 08:10
880-53820-9	SS-08	Solid	01/29/25 10:30	01/30/25 08:10

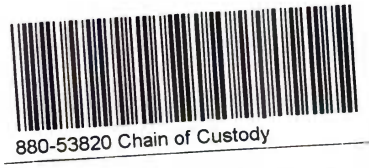
Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Wor



www.xenco.com Page 1 of 1

Project Manager:	Maddie Green	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 Marienfeld #400	Address:	
City, State ZIP:	MIDLAND TX 79701	City, State ZIP:	
Phone:	432 230 3344	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatline Frac	Turn Around	☐ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy Co NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Shane Dilley		
PO #:	03D3936001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR7
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.1
Total Containers:		Corrected Temperature:	2.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	TPH 8015	BTEX 8021B	Chlorides 300	Sample Comments
SS-01	S	1-29-25	1056	1	C	1	X	X	X	
SS-02	S	1-29-25	1148	1	C	1	X	X	X	
SS-03	S	1-29-25	1145	1	C	1	X	X	X	
SS-04	S	1-29-25	1152	1	C	1	X	X	X	
SS-05	S	1-29-25	1038	1	C	1	X	X	X	
SS-06	S	1-29-25	1130	1	C	1	X	X	X	
SS-06	S	1-29-25	1133	2	C	1	X	X	X	
SS-07	S	1-29-25	1035	1	C	1	X	X	X	
SS-08	S	1-29-25	1030	1	C	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/30/25 810	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-53820-1
SDG Number: Eddy Co, NM

Login Number: 53820
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

FLATLAND FNR FRAC LAND
03D3836001

JOB NUMBER

890-7941-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

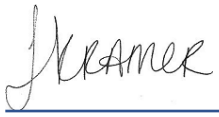
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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4/17/2025 2:33:35 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Laboratory Job ID: 890-7941-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum Job ID: 890-7941-1
Project/Site: FLATLAND FNR FRAC LAND SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-7941-1
Project: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1 Eurofins Carlsbad

Job Narrative
890-7941-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/15/2025 4:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 28 (890-7941-1), CS 29 (890-7941-2), CS 49 (890-7941-3) and CS 58 (890-7941-4).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-107817/2-A), (880-56944-A-7-B), (880-56944-A-7-C MS) and (880-56944-A-7-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 28 (890-7941-1), CS 29 (890-7941-2) and (LCSD 880-107817/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-107818 and analytical batch 880-107856 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-107818/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 49 (890-7941-3), CS 58 (890-7941-4), (880-56945-A-9-C), (880-56945-A-9-D MS) and (880-56945-A-9-E 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.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107878 and analytical batch 880-107887 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 28

Lab Sample ID: 890-7941-1
Matrix: Solid
Date Collected: 04/14/25 10:05
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
o-Xylene	**0.0383**		0.00201		mg/Kg		04/16/25 09:42	04/16/25 23:52	1
Xylenes, Total	**0.0383**		0.00402		mg/Kg		04/16/25 09:42	04/16/25 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*04/16/25 09:42*	*04/16/25 23:52*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/16/25 09:42*	*04/16/25 23:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0383**		0.00402		mg/Kg			04/16/25 23:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			04/17/25 00:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		04/16/25 08:26	04/17/25 00:14	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		04/16/25 08:26	04/17/25 00:14	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		04/16/25 08:26	04/17/25 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 00:14*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**455**		9.92		mg/Kg			04/16/25 22:20	1

Client Sample ID: CS 29

Lab Sample ID: 890-7941-2
Matrix: Solid
Date Collected: 04/14/25 10:29
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 09:42	04/17/25 00:13	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 09:42	04/17/25 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:13*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 29

Lab Sample ID: 890-7941-2
Matrix: Solid
Date Collected: 04/14/25 10:29
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/17/25 00:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			04/17/25 00:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		04/16/25 08:26	04/17/25 00:30	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		04/16/25 08:26	04/17/25 00:30	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		04/16/25 08:26	04/17/25 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 00:30*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 00:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3230**		50.2	mg/Kg			04/16/25 22:27	5

Client Sample ID: CS 49

Lab Sample ID: 890-7941-3
Matrix: Solid
Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/16/25 09:42	04/17/25 00:33	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/16/25 09:42	04/17/25 00:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:33*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:33*	*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			04/17/25 00:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			04/17/25 00:14	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 49

Lab Sample ID: 890-7941-3
Matrix: Solid
Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 00:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 00:14	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:14*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1950**		50.0		mg/Kg			04/16/25 22:35	5

Client Sample ID: CS 58

Lab Sample ID: 890-7941-4
Matrix: Solid
Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/25 09:42	04/17/25 00:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/25 09:42	04/17/25 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:54*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*04/16/25 09:42*	*04/17/25 00:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/25 00:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/17/25 00:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*134*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:30*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:30*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 58

Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24
Sample Depth: 0.5'

Lab Sample ID: 890-7941-4

Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9640		99.8		mg/Kg			04/16/25 22:42	10

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-7934-A-1-B MS	Matrix Spike	102	93
890-7934-A-1-C MSD	Matrix Spike Duplicate	102	98
890-7941-1	CS 28	79	102
890-7941-2	CS 29	84	87
890-7941-3	CS 49	83	93
890-7941-4	CS 58	84	93
LCS 880-107721/1-A	Lab Control Sample	103	102
LCSD 880-107721/2-A	Lab Control Sample Dup	102	111
MB 880-107721/5-A	Method Blank	84	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-56944-A-7-C MS	Matrix Spike	133 S1+	124
880-56944-A-7-D MSD	Matrix Spike Duplicate	133 S1+	123
880-56945-A-9-D MS	Matrix Spike	145 S1+	139 S1+
880-56945-A-9-E MSD	Matrix Spike Duplicate	153 S1+	142 S1+
890-7941-1	CS 28	136 S1+	137 S1+
890-7941-2	CS 29	133 S1+	133 S1+
890-7941-3	CS 49	132 S1+	135 S1+
890-7941-4	CS 58	134 S1+	137 S1+
LCS 880-107817/2-A	Lab Control Sample	140 S1+	130
LCS 880-107818/2-A	Lab Control Sample	131 S1+	124
LCSD 880-107817/3-A	Lab Control Sample Dup	140 S1+	133 S1+
LCSD 880-107818/3-A	Lab Control Sample Dup	116	110
MB 880-107817/1-A	Method Blank	122	124
MB 880-107818/1-A	Method Blank	100	102

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107721/5-A
Matrix: Solid
Analysis Batch: 107890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107721

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/15/25 10:30	04/16/25 17:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/15/25 10:30	04/16/25 17:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*04/15/25 10:30*	*04/16/25 17:00*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/15/25 10:30*	*04/16/25 17:00*	*1*

Lab Sample ID: LCS 880-107721/1-A
Matrix: Solid
Analysis Batch: 107890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107721

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09488		mg/Kg		95	70 - 130		
Toluene			0.100	0.08576		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.1031		mg/Kg		103	70 - 130		
m-Xylene & p-Xylene			0.200	0.1931		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09824		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-107721/2-A
Matrix: Solid
Analysis Batch: 107890

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107721

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09792		mg/Kg		98	70 - 130	3	35
Toluene			0.100	0.08533		mg/Kg		85	70 - 130	1	35
Ethylbenzene			0.100	0.1045		mg/Kg		105	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1924		mg/Kg		96	70 - 130	0	35
o-Xylene			0.100	0.09694		mg/Kg		97	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: 890-7934-A-1-B MS
Matrix: Solid
Analysis Batch: 107890

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 107721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.09661		mg/Kg		97	70 - 130		
Toluene	<0.00202	U	0.100	0.08928		mg/Kg		89	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-7934-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107890 — **Prep Batch: 107721**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.1085		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1978		mg/Kg		99	70 - 130
o-Xylene	<0.00202	U	0.100	0.1010		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-7934-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107890 — **Prep Batch: 107721**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.09748		mg/Kg		97	70 - 130	1	35
Toluene	<0.00202	U	0.100	0.08350		mg/Kg		84	70 - 130	7	35
Ethylbenzene	<0.00202	U	0.100	0.1082		mg/Kg		108	70 - 130	0	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1950		mg/Kg		98	70 - 130	1	35
o-Xylene	<0.00202	U	0.100	0.09979		mg/Kg		100	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-107817/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107854 — **Prep Batch: 107817**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/16/25 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/16/25 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/16/25 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*04/16/25 08:26*	*04/16/25 20:01*	*1*
o-Terphenyl	*124*		*70 - 130*	*04/16/25 08:26*	*04/16/25 20:01*	*1*

Lab Sample ID: LCS 880-107817/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107854 — **Prep Batch: 107817**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1119		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1110		mg/Kg		111	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-107817/2-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107817

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-107817/3-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107817

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1087		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1114		mg/Kg		111	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: 880-56944-A-7-C MS
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 107817

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1033		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	995	921.4		mg/Kg		93	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	124		70 - 130

Lab Sample ID: 880-56944-A-7-D MSD
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 107817

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	995	1022		mg/Kg		103	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	995	895.7		mg/Kg		90	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	133	S1+	70 - 130
o-Terphenyl	123		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-107818/1-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107818

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*04/16/25 08:30*	*04/16/25 20:01*	*1*
o-Terphenyl	*102*		*70 - 130*	*04/16/25 08:30*	*04/16/25 20:01*	*1*

Lab Sample ID: LCS 880-107818/2-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107818

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	944.8		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*131*	*S1+*	*70 - 130*
o-Terphenyl	*124*		*70 - 130*

Lab Sample ID: LCSD 880-107818/3-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107818

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	867.6		mg/Kg		87	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: 880-56945-A-9-D MS
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 107818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1000	1041		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.3	U	1000	1042		mg/Kg		102	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-56945-A-9-D MS
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 107818

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	139	S1+	70 - 130

Lab Sample ID: 880-56945-A-9-E MSD
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 107818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1000	1065		mg/Kg		106	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.3	U	1000	1081		mg/Kg		106	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	142	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107878/1-A
Matrix: Solid
Analysis Batch: 107887

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/16/25 19:11	1

Lab Sample ID: LCS 880-107878/2-A
Matrix: Solid
Analysis Batch: 107887

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.6		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-107878/3-A
Matrix: Solid
Analysis Batch: 107887

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.4		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 880-56901-D-1-B MS
Matrix: Solid
Analysis Batch: 107887

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	418	F1	249	622.7	F1	mg/Kg		82	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-56901-D-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	418	F1	249	621.7	F1	mg/Kg		82	90 - 110	0	20

Lab Sample ID: 880-56947-A-4-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107887

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2030	F1	1260	3567	F1	mg/Kg		123	90 - 110

Lab Sample ID: 880-56947-A-4-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107887

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2030	F1	1260	3574	F1	mg/Kg		123	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

GC VOA

Prep Batch: 107721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	5035	
890-7941-2	CS 29	Total/NA	Solid	5035	
890-7941-3	CS 49	Total/NA	Solid	5035	
890-7941-4	CS 58	Total/NA	Solid	5035	
MB 880-107721/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107721/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107721/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7934-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7934-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 107890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	8021B	107721
890-7941-2	CS 29	Total/NA	Solid	8021B	107721
890-7941-3	CS 49	Total/NA	Solid	8021B	107721
890-7941-4	CS 58	Total/NA	Solid	8021B	107721
MB 880-107721/5-A	Method Blank	Total/NA	Solid	8021B	107721
LCS 880-107721/1-A	Lab Control Sample	Total/NA	Solid	8021B	107721
LCSD 880-107721/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107721
890-7934-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	107721
890-7934-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	107721

Analysis Batch: 107999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	Total BTEX	
890-7941-2	CS 29	Total/NA	Solid	Total BTEX	
890-7941-3	CS 49	Total/NA	Solid	Total BTEX	
890-7941-4	CS 58	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	8015NM Prep	
890-7941-2	CS 29	Total/NA	Solid	8015NM Prep	
MB 880-107817/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107817/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-56944-A-7-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-56944-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 107818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-3	CS 49	Total/NA	Solid	8015NM Prep	
890-7941-4	CS 58	Total/NA	Solid	8015NM Prep	
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-56945-A-9-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-56945-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

GC Semi VOA

Analysis Batch: 107854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	8015B NM	107817
890-7941-2	CS 29	Total/NA	Solid	8015B NM	107817
MB 880-107817/1-A	Method Blank	Total/NA	Solid	8015B NM	107817
LCS 880-107817/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107817
LCSD 880-107817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107817
880-56944-A-7-C MS	Matrix Spike	Total/NA	Solid	8015B NM	107817
880-56944-A-7-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	107817

Analysis Batch: 107856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-3	CS 49	Total/NA	Solid	8015B NM	107818
890-7941-4	CS 58	Total/NA	Solid	8015B NM	107818
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015B NM	107818
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107818
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107818
880-56945-A-9-D MS	Matrix Spike	Total/NA	Solid	8015B NM	107818
880-56945-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	107818

Analysis Batch: 107953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Total/NA	Solid	8015 NM	
890-7941-2	CS 29	Total/NA	Solid	8015 NM	
890-7941-3	CS 49	Total/NA	Solid	8015 NM	
890-7941-4	CS 58	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 107878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Soluble	Solid	DI Leach	
890-7941-2	CS 29	Soluble	Solid	DI Leach	
890-7941-3	CS 49	Soluble	Solid	DI Leach	
890-7941-4	CS 58	Soluble	Solid	DI Leach	
MB 880-107878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-56901-D-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-56901-D-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-56947-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-56947-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 107887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7941-1	CS 28	Soluble	Solid	300.0	107878
890-7941-2	CS 29	Soluble	Solid	300.0	107878
890-7941-3	CS 49	Soluble	Solid	300.0	107878
890-7941-4	CS 58	Soluble	Solid	300.0	107878
MB 880-107878/1-A	Method Blank	Soluble	Solid	300.0	107878
LCS 880-107878/2-A	Lab Control Sample	Soluble	Solid	300.0	107878
LCSD 880-107878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107878
880-56901-D-1-B MS	Matrix Spike	Soluble	Solid	300.0	107878

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

HPLC/IC (Continued)

Analysis Batch: 107887 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56901-D-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	107878
880-56947-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	107878
880-56947-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	107878

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 28

Lab Sample ID: 890-7941-1
Matrix: Solid
Date Collected: 04/14/25 10:05
Date Received: 04/15/25 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	107721	04/16/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/16/25 23:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107999	04/16/25 23:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			107953	04/17/25 00:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	107817	04/16/25 08:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107854	04/17/25 00:14	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	107878	04/16/25 12:45	SA	EET MID
Soluble	Analysis	300.0		1			107887	04/16/25 22:20	CH	EET MID

Client Sample ID: CS 29

Lab Sample ID: 890-7941-2
Matrix: Solid
Date Collected: 04/14/25 10:29
Date Received: 04/15/25 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	107721	04/16/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/17/25 00:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107999	04/17/25 00:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			107953	04/17/25 00:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	107817	04/16/25 08:26	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107854	04/17/25 00:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	107878	04/16/25 12:45	SA	EET MID
Soluble	Analysis	300.0		5			107887	04/16/25 22:27	CH	EET MID

Client Sample ID: CS 49

Lab Sample ID: 890-7941-3
Matrix: Solid
Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	107721	04/16/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/17/25 00:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107999	04/17/25 00:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			107953	04/17/25 00:14	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	107818	04/16/25 08:30	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107856	04/17/25 00:14	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	107878	04/16/25 12:45	SA	EET MID
Soluble	Analysis	300.0		5			107887	04/16/25 22:35	CH	EET MID

Client Sample ID: CS 58

Lab Sample ID: 890-7941-4
Matrix: Solid
Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	107721	04/16/25 09:42	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	107890	04/17/25 00:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			107999	04/17/25 00:54	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Client Sample ID: CS 58

Date Collected: 04/14/25 10:35
Date Received: 04/15/25 16:24

Lab Sample ID: 890-7941-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			107953	04/17/25 00:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	107818	04/16/25 08:30	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	107856	04/17/25 00:30	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	107878	04/16/25 12:45	SA	EET MID
Soluble	Analysis	300.0		10			107887	04/16/25 22:42	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LAND

Job ID: 890-7941-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-7941-1	CS 28	Solid	04/14/25 10:05	04/15/25 16:24	0.5'
890-7941-2	CS 29	Solid	04/14/25 10:29	04/15/25 16:24	0.5'
890-7941-3	CS 49	Solid	04/14/25 10:35	04/15/25 16:24	0.5'
890-7941-4	CS 58	Solid	04/14/25 10:35	04/15/25 16:24	0.5'

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Pond
Project Number:	03D383 6001
Project Location:	Eddy Co, NM
Sampler's Name:	Nicolas Christoulos
PO #:	

Turn Around
☑ Routine ☐ Rush
Due Date:
TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	Tnmac7	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.6	
Total Containers:		Corrected Temperature:	3.4	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
CS28	Soil	04/14/25	10:05	0.5'	C	1		✓	✓	✓
CS29	Soil	04/14/25	10:29	0.5'	C	1		✓	✓	✓
CS49	Soil	04/14/25	10:35	0.5'	C	1		✓	✓	✓
CS58	Soil	04/14/25	10:35	0.5'	C	1		✓	✓	✓

890-7941 Chain of Custody

NFE 04/14/2025 NL

Preservative Codes
None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Nicolas Christoulos		4/15 16:27	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7941-1
SDG Number: 03D3836001

Login Number: 7941
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-7941-1
SDG Number: 03D3836001

Login Number: 7941
List Number: 2
Creator: Vasquez, Julisa

List Source: Eurofins Midland
List Creation: 04/16/25 09:31 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 4/22/2025 1:35:01 PM

JOB DESCRIPTION

Flatland FNR Frac Line
Eddy County

JOB NUMBER

880-56962-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:31 PM

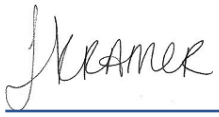
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
4/22/2025 1:35:01 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Laboratory Job ID: 880-56962-1
SDG: Eddy County

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Definitions/Glossary

Client: Ensolum Job ID: 880-56962-1
Project/Site: Flatland FNR Frac Line SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-56962-1
Project: Flatland FNR Frac Line

Job ID: 880-56962-1 Eurofins Midland

Job Narrative
880-56962-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/16/2025 8:27 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 -0.7°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 196 (880-56962-1), CS 198 (880-56962-2), CS 188 (880-56962-3), CS 189 (880-56962-4), CS 203 (880-56962-5), CS 187 (880-56962-6), CS 191 (880-56962-7), CS 194 (880-56962-8), CS 197 (880-56962-9), CS 190 (880-56962-10), CS 193 (880-56962-11), CS 221 (880-56962-12), CS 224 (880-56962-13), CS 199 (880-56962-14), CS 230 (880-56962-15), CS 234 (880-56962-16), CS 189 (880-56962-17), CS 192 (880-56962-18), CS 195 (880-56962-19), CS 188 (880-56962-20) and CS 188 (880-56962-21).

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-107892 and analytical batch 880-107933 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 samples were outside control limits: CS 198 (880-56962-2), CS 188 (880-56962-3), CS 189 (880-56962-4), CS 203 (880-56962-5), CS 187 (880-56962-6), CS 191 (880-56962-7), CS 197 (880-56962-9) and CS 190 (880-56962-10). 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: CS 221 (880-56962-12), CS 224 (880-56962-13), CS 230 (880-56962-15), CS 234 (880-56962-16), CS 189 (880-56962-17), CS 192 (880-56962-18) and CS 195 (880-56962-19). 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-107817/2-A), (880-56944-A-7-B), (880-56944-A-7-C MS) and (880-56944-A-7-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 188 (880-56962-3), CS 189 (880-56962-4), CS 187 (880-56962-6), CS 191 (880-56962-7) and (LCSD 880-107817/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-107818 and analytical batch 880-107856 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-107818/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 197 (880-56962-9), CS 190 (880-56962-10), CS 193 (880-56962-11), CS 221 (880-56962-12), CS 224 (880-56962-13), (880-56945-A-9-C), (880-56945-A-9-D MS) and (880-56945-A-9-E MSD). Evidence of matrix interferences is not obvious.

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Case Narrative

Client: Ensolum Job ID: 880-56962-1
Project: Flatland FNR Frac Line

Job ID: 880-56962-1 (Continued) Eurofins Midland

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 230 (880-56962-15), CS 234 (880-56962-16), CS 189 (880-56962-17), CS 195 (880-56962-19), (880-56962-A-15-D MS) and (880-56962-A-15-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107949 and analytical batch 880-108189 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.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107897 and analytical batch 880-107903 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 196

Date Collected: 04/15/25 12:16
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
Toluene	<0.00202	U F1	0.00202		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 12:52	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/16/25 14:28	04/17/25 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*04/16/25 14:28*	*04/17/25 12:52*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*04/16/25 14:28*	*04/17/25 12:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/17/25 12:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/17/25 00:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		04/16/25 08:26	04/17/25 00:45	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		04/16/25 08:26	04/17/25 00:45	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/16/25 08:26	04/17/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*04/16/25 08:26*	*04/17/25 00:45*	*1*
o-Terphenyl	*130*		*70 - 130*	*04/16/25 08:26*	*04/17/25 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.6**	**F1**	10.0		mg/Kg			04/16/25 22:54	1

Client Sample ID: CS 198

Date Collected: 04/15/25 12:20
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 13:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/16/25 14:28	04/17/25 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 13:12*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*04/16/25 14:28*	*04/17/25 13:12*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 198

Date Collected: 04/15/25 12:20
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/17/25 13:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/17/25 00:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/16/25 08:26	04/17/25 00:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/16/25 08:26	04/17/25 00:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/16/25 08:26	04/17/25 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*04/16/25 08:26*	*04/17/25 00:59*	*1*
o-Terphenyl	*125*		*70 - 130*	*04/16/25 08:26*	*04/17/25 00:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		9.96		mg/Kg			04/16/25 21:57	1

Client Sample ID: CS 188

Date Collected: 04/15/25 12:14
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 13:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 13:33*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*04/16/25 14:28*	*04/17/25 13:33*	*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			04/17/25 13:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/17/25 01:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		04/16/25 08:26	04/17/25 01:14	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/16/25 08:26	04/17/25 01:14	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 188

Lab Sample ID: 880-56962-3
Matrix: Solid
Date Collected: 04/15/25 12:14
Date Received: 04/16/25 08:27

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/16/25 08:26	04/17/25 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:14*	*1*
o-Terphenyl	*142*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**25.8**		10.1		mg/Kg			04/16/25 23:11	1

Client Sample ID: CS 189

Lab Sample ID: 880-56962-4
Matrix: Solid
Date Collected: 04/15/25 12:25
Date Received: 04/16/25 08:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 13:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 13:53*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*04/16/25 14:28*	*04/17/25 13:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/25 13:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/17/25 01:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/16/25 08:26	04/17/25 01:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/16/25 08:26	04/17/25 01:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/16/25 08:26	04/17/25 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:30*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.1**		10.1		mg/Kg			04/16/25 23:17	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 203

Lab Sample ID: 880-56962-5
Matrix: Solid
Date Collected: 04/15/25 13:32
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 14:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/25 14:28	04/17/25 14:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/25 14:28	04/17/25 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*143*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 14:14*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*04/16/25 14:28*	*04/17/25 14:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/17/25 14:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/17/25 01:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/17/25 01:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/17/25 01:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/17/25 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*04/16/25 08:26*	*04/17/25 01:45*	*1*
o-Terphenyl	*128*		*70 - 130*	*04/16/25 08:26*	*04/17/25 01:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.4**		10.0		mg/Kg			04/16/25 23:23	1

Client Sample ID: CS 187

Lab Sample ID: 880-56962-6
Matrix: Solid
Date Collected: 04/15/25 13:34
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 14:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:34	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 14:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 14:34	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 14:34*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/16/25 14:28*	*04/17/25 14:34*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 187

Lab Sample ID: 880-56962-6
Matrix: Solid
Date Collected: 04/15/25 13:34
Date Received: 04/16/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 14:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/17/25 01:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/16/25 08:26	04/17/25 01:59	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/16/25 08:26	04/17/25 01:59	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/16/25 08:26	04/17/25 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:59*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 01:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**132**		9.98		mg/Kg			04/16/25 23:29	1

Client Sample ID: CS 191

Lab Sample ID: 880-56962-7
Matrix: Solid
Date Collected: 04/15/25 13:40
Date Received: 04/16/25 08:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/16/25 14:28	04/17/25 14:55	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/16/25 14:28	04/17/25 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*137*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 14:55*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*04/16/25 14:28*	*04/17/25 14:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/17/25 14:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			04/17/25 02:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		04/16/25 08:26	04/17/25 02:14	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		04/16/25 08:26	04/17/25 02:14	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 191

Lab Sample ID: 880-56962-7
Matrix: Solid
Date Collected: 04/15/25 13:40
Date Received: 04/16/25 08:27

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		04/16/25 08:26	04/17/25 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 02:14*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*04/16/25 08:26*	*04/17/25 02:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.7**		9.94		mg/Kg			04/16/25 23:46	1

Client Sample ID: CS 197

Lab Sample ID: 880-56962-9
Matrix: Solid
Date Collected: 04/15/25 13:46
Date Received: 04/16/25 08:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 15:15	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 15:15*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/16/25 14:28*	*04/17/25 15:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/25 15:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/17/25 00:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 00:45	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 00:45	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:45*	*1*
o-Terphenyl	*147*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**91.7**		10.1		mg/Kg			04/16/25 23:52	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 190

Lab Sample ID: 880-56962-10
Matrix: Solid
Date Collected: 04/15/25 11:12
Date Received: 04/16/25 08:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 15:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 15:36*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/16/25 14:28*	*04/17/25 15:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/17/25 15:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/17/25 00:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/16/25 08:30	04/17/25 00:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*149*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:59*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 00:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5400**		101		mg/Kg			04/16/25 23:58	10

Client Sample ID: CS 193

Lab Sample ID: 880-56962-11
Matrix: Solid
Date Collected: 04/15/25 11:14
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 15:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 15:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 15:56	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 15:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 15:56	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*04/16/25 14:28*	*04/17/25 15:56*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/16/25 14:28*	*04/17/25 15:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 193

Lab Sample ID: 880-56962-11
Matrix: Solid
Date Collected: 04/15/25 11:14
Date Received: 04/16/25 08:27

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 15:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/17/25 01:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:14	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:14	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*148*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:14*	*1*
o-Terphenyl	*156*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		9.98		mg/Kg			04/17/25 00:03	1

Client Sample ID: CS 221

Lab Sample ID: 880-56962-12
Matrix: Solid
Date Collected: 04/15/25 11:18
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 17:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 17:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 17:47	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 17:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 17:47	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/16/25 14:28*	*04/17/25 17:47*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/16/25 14:28*	*04/17/25 17:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 17:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			04/17/25 01:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 01:30	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 01:30	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 221

Lab Sample ID: 880-56962-12
Date Collected: 04/15/25 11:18
Matrix: Solid
Date Received: 04/16/25 08:27

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		04/16/25 08:30	04/17/25 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:30*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.0**		9.90		mg/Kg			04/17/25 00:09	1

Client Sample ID: CS 224

Lab Sample ID: 880-56962-13
Date Collected: 04/15/25 11:19
Matrix: Solid
Date Received: 04/16/25 08:27

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		04/16/25 14:28	04/17/25 18:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 18:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 18:07	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 18:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 18:07	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 18:07*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*04/16/25 14:28*	*04/17/25 18:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 18:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			04/17/25 01:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:45	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:45	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		04/16/25 08:30	04/17/25 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:45*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*04/16/25 08:30*	*04/17/25 01:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		9.98		mg/Kg			04/17/25 00:15	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 230

Lab Sample ID: 880-56962-15
Matrix: Solid
Date Collected: 04/15/25 11:28
Date Received: 04/16/25 08:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 18:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 18:28*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*04/16/25 14:28*	*04/17/25 18:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/17/25 18:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			04/21/25 11:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U F1	50.2		mg/Kg		04/17/25 11:23	04/21/25 11:56	1
Diesel Range Organics (Over C10-C28)	<50.2	U F1	50.2		mg/Kg		04/17/25 11:23	04/21/25 11:56	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/17/25 11:23	04/21/25 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 11:56*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 11:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		10.1		mg/Kg			04/17/25 00:32	1

Client Sample ID: CS 234

Lab Sample ID: 880-56962-16
Matrix: Solid
Date Collected: 04/15/25 11:30
Date Received: 04/16/25 08:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/16/25 14:28	04/17/25 18:48	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/16/25 14:28	04/17/25 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 18:48*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*04/16/25 14:28*	*04/17/25 18:48*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 234

Date Collected: 04/15/25 11:30
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-16
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/17/25 18:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/25 12:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 12:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 12:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 12:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 12:44*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 12:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		10.1		mg/Kg			04/17/25 00:38	1

Client Sample ID: CS 189

Date Collected: 04/15/25 12:28
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 19:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 19:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 19:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 19:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 19:08	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/16/25 14:28	04/17/25 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 19:08*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*04/16/25 14:28*	*04/17/25 19:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/17/25 19:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/21/25 12:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 12:58	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 12:58	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 189

Lab Sample ID: 880-56962-17
Matrix: Solid
Date Collected: 04/15/25 12:28
Date Received: 04/16/25 08:27

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 12:58*	*1*
o-Terphenyl	*137*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 12:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.7**		9.96		mg/Kg			04/17/25 00:55	1

Client Sample ID: CS 192

Lab Sample ID: 880-56962-18
Matrix: Solid
Date Collected: 04/15/25 12:29
Date Received: 04/16/25 08:27

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/16/25 14:28	04/17/25 19:29	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/16/25 14:28	04/17/25 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 19:29*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*04/16/25 14:28*	*04/17/25 19:29*	*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			04/17/25 19:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/25 13:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 11:23	04/21/25 13:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 11:23	04/21/25 13:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 11:23	04/21/25 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*04/17/25 11:23*	*04/21/25 13:13*	*1*
o-Terphenyl	*129*		*70 - 130*	*04/17/25 11:23*	*04/21/25 13:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		10.1		mg/Kg			04/17/25 01:01	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 195

Date Collected: 04/15/25 12:22
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-19

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/16/25 14:28	04/17/25 19:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/16/25 14:28	04/17/25 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*04/16/25 14:28*	*04/17/25 19:49*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*04/16/25 14:28*	*04/17/25 19:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/17/25 19:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			04/21/25 13:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 13:28	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 13:28	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/17/25 11:23	04/21/25 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 13:28*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 13:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.1**		9.96		mg/Kg			04/17/25 01:07	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-56962-1	CS 196	125	115
880-56962-1 MS	CS 196	122	109
880-56962-1 MSD	CS 196	124	120
880-56962-2	CS 198	136 S1+	115
880-56962-3	CS 188	132 S1+	117
880-56962-4	CS 189	140 S1+	116
880-56962-5	CS 203	143 S1+	118
880-56962-6	CS 187	131 S1+	109
880-56962-7	CS 191	137 S1+	109
880-56962-9	CS 197	145 S1+	112
880-56962-10	CS 190	135 S1+	112
880-56962-11	CS 193	122	104
880-56962-12	CS 221	97	98
880-56962-13	CS 224	135 S1+	114
880-56962-15	CS 230	136 S1+	119
880-56962-16	CS 234	139 S1+	115
880-56962-17	CS 189	140 S1+	113
880-56962-18	CS 192	136 S1+	115
880-56962-19	CS 195	140 S1+	111
LCS 880-107892/1-A	Lab Control Sample	118	101
LCSD 880-107892/2-A	Lab Control Sample Dup	118	96
MB 880-107892/5-A	Method Blank	96	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-56962-1	CS 196	110	130
880-56962-2	CS 198	117	125
880-56962-3	CS 188	139 S1+	142 S1+
880-56962-4	CS 189	141 S1+	145 S1+
880-56962-5	CS 203	109	128
880-56962-6	CS 187	140 S1+	144 S1+
880-56962-7	CS 191	141 S1+	145 S1+
880-56962-9	CS 197	142 S1+	147 S1+
880-56962-10	CS 190	149 S1+	151 S1+
880-56962-11	CS 193	148 S1+	156 S1+
880-56962-12	CS 221	137 S1+	144 S1+
880-56962-13	CS 224	138 S1+	148 S1+
880-56962-15	CS 230	142 S1+	145 S1+
880-56962-15 MS	CS 230	150 S1+	143 S1+
880-56962-15 MSD	CS 230	155 S1+	148 S1+
880-56962-16	CS 234	141 S1+	145 S1+
880-56962-17	CS 189	136 S1+	137 S1+

Surrogate Summary

Client: Ensolum Job ID: 880-56962-1
Project/Site: Flatland FNR Frac Line SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-56962-18	CS 192	129	129										
880-56962-19	CS 195	132 S1+	133 S1+										
LCS 880-107817/2-A	Lab Control Sample	140 S1+	130										
LCS 880-107818/2-A	Lab Control Sample	131 S1+	124										
LCS 880-107949/2-A	Lab Control Sample	110	105										
LCSD 880-107817/3-A	Lab Control Sample Dup	140 S1+	133 S1+										
LCSD 880-107818/3-A	Lab Control Sample Dup	116	110										
LCSD 880-107949/3-A	Lab Control Sample Dup	111	107										
MB 880-107817/1-A	Method Blank	122	124										
MB 880-107818/1-A	Method Blank	100	102										
MB 880-107949/1-A	Method Blank	85	90										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-107892/5-A
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107892

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/16/25 14:28	04/17/25 12:31	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/16/25 14:28	04/17/25 12:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/16/25 14:28*	*04/17/25 12:31*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*04/16/25 14:28*	*04/17/25 12:31*	*1*

Lab Sample ID: LCS 880-107892/1-A
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107892

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08525		mg/Kg		85	70 - 130		
Toluene			0.100	0.07723		mg/Kg		77	70 - 130		
Ethylbenzene			0.100	0.08227		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene			0.200	0.1763		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09160		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-107892/2-A
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107892

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1015		mg/Kg		102	70 - 130	17	35
Toluene			0.100	0.09295		mg/Kg		93	70 - 130	18	35
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130	23	35
m-Xylene & p-Xylene			0.200	0.2151		mg/Kg		108	70 - 130	20	35
o-Xylene			0.100	0.1034		mg/Kg		103	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 880-56962-1 MS
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: CS 196
Prep Type: Total/NA
Prep Batch: 107892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U	0.100	0.09856		mg/Kg		99	70 - 130		
Toluene	<0.00202	U F1	0.100	0.07968		mg/Kg		80	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-56962-1 MS
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: CS 196
Prep Type: Total/NA
Prep Batch: 107892

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.100	0.08826		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1781		mg/Kg		89	70 - 130
o-Xylene	<0.00202	U	0.100	0.08902		mg/Kg		89	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-56962-1 MSD
Matrix: Solid
Analysis Batch: 107933

Client Sample ID: CS 196
Prep Type: Total/NA
Prep Batch: 107892

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.08920		mg/Kg		89	70 - 130	10	35
Toluene	<0.00202	U F1	0.100	0.06364	F1	mg/Kg		64	70 - 130	22	35
Ethylbenzene	<0.00202	U	0.100	0.07146		mg/Kg		71	70 - 130	21	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1511		mg/Kg		76	70 - 130	16	35
o-Xylene	<0.00202	U	0.100	0.07846		mg/Kg		78	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-107817/1-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107817

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/16/25 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/16/25 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/25 08:26	04/16/25 20:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*04/16/25 08:26*	*04/16/25 20:01*	*1*
o-Terphenyl	*124*		*70 - 130*	*04/16/25 08:26*	*04/16/25 20:01*	*1*

Lab Sample ID: LCS 880-107817/2-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107817

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1119		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1110		mg/Kg		111	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-107817/2-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107817

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-107817/3-A
Matrix: Solid
Analysis Batch: 107854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107817

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1087		mg/Kg		109	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1114		mg/Kg		111	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: MB 880-107818/1-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107818

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/16/25 08:30	04/16/25 20:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	04/16/25 08:30	04/16/25 20:01	1
o-Terphenyl	102		70 - 130	04/16/25 08:30	04/16/25 20:01	1

Lab Sample ID: LCS 880-107818/2-A
Matrix: Solid
Analysis Batch: 107856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107818

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	944.8		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1090		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	131	S1+	70 - 130
o-Terphenyl	124		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-107818/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 107856 — **Prep Batch: 107818**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	867.6		mg/Kg		87	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	8	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

Lab Sample ID: MB 880-107949/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108189 — **Prep Batch: 107949**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/17/25 11:23*	*04/21/25 09:44*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/17/25 11:23*	*04/21/25 09:44*	*1*

Lab Sample ID: LCS 880-107949/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108189 — **Prep Batch: 107949**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	742.9		mg/Kg		74	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	950.7		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-107949/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108189 — **Prep Batch: 107949**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	791.1		mg/Kg		79	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	976.2		mg/Kg		98	70 - 130	3	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-107949/3-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107949

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 880-56962-15 MS
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: CS 230
Prep Type: Total/NA
Prep Batch: 107949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.2	U F1	995	1334	F1	mg/Kg		132	70 - 130
Diesel Range Organics (Over C10-C28)	<50.2	U F1	995	1363	F1	mg/Kg		134	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	150	S1+	70 - 130
o-Terphenyl	143	S1+	70 - 130

Lab Sample ID: 880-56962-15 MSD
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: CS 230
Prep Type: Total/NA
Prep Batch: 107949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.2	U F1	995	1389	F1	mg/Kg		137	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.2	U F1	995	1453	F1	mg/Kg		143	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	155	S1+	70 - 130
o-Terphenyl	148	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107889/1-A
Matrix: Solid
Analysis Batch: 107893

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/16/25 19:33	1

Lab Sample ID: LCS 880-107889/2-A
Matrix: Solid
Analysis Batch: 107893

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride			250	267.0		mg/Kg		107	90 - 110

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-107889/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107893

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	268.2		mg/Kg		107	90 - 110	0	20

Lab Sample ID: MB 880-107897/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107903

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/16/25 22:37	1

Lab Sample ID: LCS 880-107897/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107903

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	268.7		mg/Kg		107	90 - 110		

Lab Sample ID: LCSD 880-107897/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107903

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	269.4		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-56962-1 MS — **Client Sample ID: CS 196**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	72.6	F1	251	357.6	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-56962-1 MSD — **Client Sample ID: CS 196**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72.6	F1	251	358.5	F1	mg/Kg		114	90 - 110	0	20

Lab Sample ID: 880-56962-13 MS — **Client Sample ID: CS 224**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107903

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	104		250	368.6		mg/Kg		106	90 - 110		

Lab Sample ID: 880-56962-13 MSD — **Client Sample ID: CS 224**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 107903

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	104		250	369.5		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

GC VOA

Prep Batch: 107892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	5035	
880-56962-2	CS 198	Total/NA	Solid	5035	
880-56962-3	CS 188	Total/NA	Solid	5035	
880-56962-4	CS 189	Total/NA	Solid	5035	
880-56962-5	CS 203	Total/NA	Solid	5035	
880-56962-6	CS 187	Total/NA	Solid	5035	
880-56962-7	CS 191	Total/NA	Solid	5035	
880-56962-9	CS 197	Total/NA	Solid	5035	
880-56962-10	CS 190	Total/NA	Solid	5035	
880-56962-11	CS 193	Total/NA	Solid	5035	
880-56962-12	CS 221	Total/NA	Solid	5035	
880-56962-13	CS 224	Total/NA	Solid	5035	
880-56962-15	CS 230	Total/NA	Solid	5035	
880-56962-16	CS 234	Total/NA	Solid	5035	
880-56962-17	CS 189	Total/NA	Solid	5035	
880-56962-18	CS 192	Total/NA	Solid	5035	
880-56962-19	CS 195	Total/NA	Solid	5035	
MB 880-107892/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-107892/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-107892/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-56962-1 MS	CS 196	Total/NA	Solid	5035	
880-56962-1 MSD	CS 196	Total/NA	Solid	5035	

Analysis Batch: 107933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	8021B	107892
880-56962-2	CS 198	Total/NA	Solid	8021B	107892
880-56962-3	CS 188	Total/NA	Solid	8021B	107892
880-56962-4	CS 189	Total/NA	Solid	8021B	107892
880-56962-5	CS 203	Total/NA	Solid	8021B	107892
880-56962-6	CS 187	Total/NA	Solid	8021B	107892
880-56962-7	CS 191	Total/NA	Solid	8021B	107892
880-56962-9	CS 197	Total/NA	Solid	8021B	107892
880-56962-10	CS 190	Total/NA	Solid	8021B	107892
880-56962-11	CS 193	Total/NA	Solid	8021B	107892
880-56962-12	CS 221	Total/NA	Solid	8021B	107892
880-56962-13	CS 224	Total/NA	Solid	8021B	107892
880-56962-15	CS 230	Total/NA	Solid	8021B	107892
880-56962-16	CS 234	Total/NA	Solid	8021B	107892
880-56962-17	CS 189	Total/NA	Solid	8021B	107892
880-56962-18	CS 192	Total/NA	Solid	8021B	107892
880-56962-19	CS 195	Total/NA	Solid	8021B	107892
MB 880-107892/5-A	Method Blank	Total/NA	Solid	8021B	107892
LCS 880-107892/1-A	Lab Control Sample	Total/NA	Solid	8021B	107892
LCSD 880-107892/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	107892
880-56962-1 MS	CS 196	Total/NA	Solid	8021B	107892
880-56962-1 MSD	CS 196	Total/NA	Solid	8021B	107892

Analysis Batch: 108018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 108018 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-2	CS 198	Total/NA	Solid	Total BTEX	
880-56962-3	CS 188	Total/NA	Solid	Total BTEX	
880-56962-4	CS 189	Total/NA	Solid	Total BTEX	
880-56962-5	CS 203	Total/NA	Solid	Total BTEX	
880-56962-6	CS 187	Total/NA	Solid	Total BTEX	
880-56962-7	CS 191	Total/NA	Solid	Total BTEX	
880-56962-9	CS 197	Total/NA	Solid	Total BTEX	
880-56962-10	CS 190	Total/NA	Solid	Total BTEX	
880-56962-11	CS 193	Total/NA	Solid	Total BTEX	
880-56962-12	CS 221	Total/NA	Solid	Total BTEX	
880-56962-13	CS 224	Total/NA	Solid	Total BTEX	
880-56962-15	CS 230	Total/NA	Solid	Total BTEX	
880-56962-16	CS 234	Total/NA	Solid	Total BTEX	
880-56962-17	CS 189	Total/NA	Solid	Total BTEX	
880-56962-18	CS 192	Total/NA	Solid	Total BTEX	
880-56962-19	CS 195	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 107817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	8015NM Prep	
880-56962-2	CS 198	Total/NA	Solid	8015NM Prep	
880-56962-3	CS 188	Total/NA	Solid	8015NM Prep	
880-56962-4	CS 189	Total/NA	Solid	8015NM Prep	
880-56962-5	CS 203	Total/NA	Solid	8015NM Prep	
880-56962-6	CS 187	Total/NA	Solid	8015NM Prep	
880-56962-7	CS 191	Total/NA	Solid	8015NM Prep	
MB 880-107817/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107817/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 107818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-9	CS 197	Total/NA	Solid	8015NM Prep	
880-56962-10	CS 190	Total/NA	Solid	8015NM Prep	
880-56962-11	CS 193	Total/NA	Solid	8015NM Prep	
880-56962-12	CS 221	Total/NA	Solid	8015NM Prep	
880-56962-13	CS 224	Total/NA	Solid	8015NM Prep	
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	8015B NM	107817
880-56962-2	CS 198	Total/NA	Solid	8015B NM	107817
880-56962-3	CS 188	Total/NA	Solid	8015B NM	107817
880-56962-4	CS 189	Total/NA	Solid	8015B NM	107817
880-56962-5	CS 203	Total/NA	Solid	8015B NM	107817
880-56962-6	CS 187	Total/NA	Solid	8015B NM	107817

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 107854 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-7	CS 191	Total/NA	Solid	8015B NM	107817
MB 880-107817/1-A	Method Blank	Total/NA	Solid	8015B NM	107817
LCS 880-107817/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107817
LCSD 880-107817/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107817

Analysis Batch: 107856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-9	CS 197	Total/NA	Solid	8015B NM	107818
880-56962-10	CS 190	Total/NA	Solid	8015B NM	107818
880-56962-11	CS 193	Total/NA	Solid	8015B NM	107818
880-56962-12	CS 221	Total/NA	Solid	8015B NM	107818
880-56962-13	CS 224	Total/NA	Solid	8015B NM	107818
MB 880-107818/1-A	Method Blank	Total/NA	Solid	8015B NM	107818
LCS 880-107818/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107818
LCSD 880-107818/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107818

Prep Batch: 107949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-15	CS 230	Total/NA	Solid	8015NM Prep	
880-56962-16	CS 234	Total/NA	Solid	8015NM Prep	
880-56962-17	CS 189	Total/NA	Solid	8015NM Prep	
880-56962-18	CS 192	Total/NA	Solid	8015NM Prep	
880-56962-19	CS 195	Total/NA	Solid	8015NM Prep	
MB 880-107949/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107949/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-56962-15 MS	CS 230	Total/NA	Solid	8015NM Prep	
880-56962-15 MSD	CS 230	Total/NA	Solid	8015NM Prep	

Analysis Batch: 107954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Total/NA	Solid	8015 NM	
880-56962-2	CS 198	Total/NA	Solid	8015 NM	
880-56962-3	CS 188	Total/NA	Solid	8015 NM	
880-56962-4	CS 189	Total/NA	Solid	8015 NM	
880-56962-5	CS 203	Total/NA	Solid	8015 NM	
880-56962-6	CS 187	Total/NA	Solid	8015 NM	
880-56962-7	CS 191	Total/NA	Solid	8015 NM	
880-56962-9	CS 197	Total/NA	Solid	8015 NM	
880-56962-10	CS 190	Total/NA	Solid	8015 NM	
880-56962-11	CS 193	Total/NA	Solid	8015 NM	
880-56962-12	CS 221	Total/NA	Solid	8015 NM	
880-56962-13	CS 224	Total/NA	Solid	8015 NM	
880-56962-15	CS 230	Total/NA	Solid	8015 NM	
880-56962-16	CS 234	Total/NA	Solid	8015 NM	
880-56962-17	CS 189	Total/NA	Solid	8015 NM	
880-56962-18	CS 192	Total/NA	Solid	8015 NM	
880-56962-19	CS 195	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 108189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-15	CS 230	Total/NA	Solid	8015B NM	107949
880-56962-16	CS 234	Total/NA	Solid	8015B NM	107949
880-56962-17	CS 189	Total/NA	Solid	8015B NM	107949
880-56962-18	CS 192	Total/NA	Solid	8015B NM	107949
880-56962-19	CS 195	Total/NA	Solid	8015B NM	107949
MB 880-107949/1-A	Method Blank	Total/NA	Solid	8015B NM	107949
LCS 880-107949/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107949
LCSD 880-107949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107949
880-56962-15 MS	CS 230	Total/NA	Solid	8015B NM	107949
880-56962-15 MSD	CS 230	Total/NA	Solid	8015B NM	107949

HPLC/IC

Leach Batch: 107889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-2	CS 198	Soluble	Solid	DI Leach	
MB 880-107889/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107889/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107889/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 107893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-2	CS 198	Soluble	Solid	300.0	107889
MB 880-107889/1-A	Method Blank	Soluble	Solid	300.0	107889
LCS 880-107889/2-A	Lab Control Sample	Soluble	Solid	300.0	107889
LCSD 880-107889/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107889

Leach Batch: 107897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Soluble	Solid	DI Leach	
880-56962-3	CS 188	Soluble	Solid	DI Leach	
880-56962-4	CS 189	Soluble	Solid	DI Leach	
880-56962-5	CS 203	Soluble	Solid	DI Leach	
880-56962-6	CS 187	Soluble	Solid	DI Leach	
880-56962-7	CS 191	Soluble	Solid	DI Leach	
880-56962-9	CS 197	Soluble	Solid	DI Leach	
880-56962-10	CS 190	Soluble	Solid	DI Leach	
880-56962-11	CS 193	Soluble	Solid	DI Leach	
880-56962-12	CS 221	Soluble	Solid	DI Leach	
880-56962-13	CS 224	Soluble	Solid	DI Leach	
880-56962-15	CS 230	Soluble	Solid	DI Leach	
880-56962-16	CS 234	Soluble	Solid	DI Leach	
880-56962-17	CS 189	Soluble	Solid	DI Leach	
880-56962-18	CS 192	Soluble	Solid	DI Leach	
880-56962-19	CS 195	Soluble	Solid	DI Leach	
MB 880-107897/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107897/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107897/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-56962-1 MS	CS 196	Soluble	Solid	DI Leach	
880-56962-1 MSD	CS 196	Soluble	Solid	DI Leach	
880-56962-13 MS	CS 224	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 107897 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-13 MSD	CS 224	Soluble	Solid	DI Leach	

Analysis Batch: 107903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-56962-1	CS 196	Soluble	Solid	300.0	107897
880-56962-3	CS 188	Soluble	Solid	300.0	107897
880-56962-4	CS 189	Soluble	Solid	300.0	107897
880-56962-5	CS 203	Soluble	Solid	300.0	107897
880-56962-6	CS 187	Soluble	Solid	300.0	107897
880-56962-7	CS 191	Soluble	Solid	300.0	107897
880-56962-9	CS 197	Soluble	Solid	300.0	107897
880-56962-10	CS 190	Soluble	Solid	300.0	107897
880-56962-11	CS 193	Soluble	Solid	300.0	107897
880-56962-12	CS 221	Soluble	Solid	300.0	107897
880-56962-13	CS 224	Soluble	Solid	300.0	107897
880-56962-15	CS 230	Soluble	Solid	300.0	107897
880-56962-16	CS 234	Soluble	Solid	300.0	107897
880-56962-17	CS 189	Soluble	Solid	300.0	107897
880-56962-18	CS 192	Soluble	Solid	300.0	107897
880-56962-19	CS 195	Soluble	Solid	300.0	107897
MB 880-107897/1-A	Method Blank	Soluble	Solid	300.0	107897
LCS 880-107897/2-A	Lab Control Sample	Soluble	Solid	300.0	107897
LCSD 880-107897/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107897
880-56962-1 MS	CS 196	Soluble	Solid	300.0	107897
880-56962-1 MSD	CS 196	Soluble	Solid	300.0	107897
880-56962-13 MS	CS 224	Soluble	Solid	300.0	107897
880-56962-13 MSD	CS 224	Soluble	Solid	300.0	107897

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 196

Date Collected: 04/15/25 12:16
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 12:52
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 12:52
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 00:45
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 00:45
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 22:54

Client Sample ID: CS 198

Date Collected: 04/15/25 12:20
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 13:12
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 13:12
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 00:59
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 00:59
Soluble	Leach	DI Leach			107889	SA	EET MID	04/16/25 14:12
Soluble	Analysis	300.0		1	107893	CH	EET MID	04/16/25 21:57

Client Sample ID: CS 188

Date Collected: 04/15/25 12:14
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 13:33
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 13:33
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:14
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 01:14
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:11

Client Sample ID: CS 189

Date Collected: 04/15/25 12:25
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 13:53
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 13:53

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 189
Date Collected: 04/15/25 12:25
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:30
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 01:30
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:17

Client Sample ID: CS 203
Date Collected: 04/15/25 13:32
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 14:14
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 14:14
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:45
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 01:45
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:23

Client Sample ID: CS 187
Date Collected: 04/15/25 13:34
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 14:34
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 14:34
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:59
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 01:59
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:29

Client Sample ID: CS 191
Date Collected: 04/15/25 13:40
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 14:55
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 14:55
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 02:14
Total/NA	Prep	8015NM Prep			107817	FC	EET MID	04/16/25 08:26
Total/NA	Analysis	8015B NM		1	107854	TKC	EET MID	04/17/25 02:14

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 191

Date Collected: 04/15/25 13:40
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:46

Client Sample ID: CS 197

Date Collected: 04/15/25 13:46
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 15:15
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 15:15
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 00:45
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 00:45
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/16/25 23:52

Client Sample ID: CS 190

Date Collected: 04/15/25 11:12
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 15:36
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 15:36
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 00:59
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 00:59
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		10	107903	CH	EET MID	04/16/25 23:58

Client Sample ID: CS 193

Date Collected: 04/15/25 11:14
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 15:56
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 15:56
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:14
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 01:14
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:03

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 221

Lab Sample ID: 880-56962-12
Matrix: Solid
Date Collected: 04/15/25 11:18
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 17:47
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 17:47
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:30
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 01:30
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:09

Client Sample ID: CS 224

Lab Sample ID: 880-56962-13
Matrix: Solid
Date Collected: 04/15/25 11:19
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 18:07
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 18:07
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/17/25 01:45
Total/NA	Prep	8015NM Prep			107818	FC	EET MID	04/16/25 08:30
Total/NA	Analysis	8015B NM		1	107856	TKC	EET MID	04/17/25 01:45
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:15

Client Sample ID: CS 230

Lab Sample ID: 880-56962-15
Matrix: Solid
Date Collected: 04/15/25 11:28
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 18:28
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 18:28
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 11:56
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 11:56
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:32

Client Sample ID: CS 234

Lab Sample ID: 880-56962-16
Matrix: Solid
Date Collected: 04/15/25 11:30
Date Received: 04/16/25 08:27

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 18:48
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 18:48

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 234
Date Collected: 04/15/25 11:30
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 12:44
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 12:44
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:38

Client Sample ID: CS 189
Date Collected: 04/15/25 12:28
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 19:08
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 19:08
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 12:58
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 12:58
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 00:55

Client Sample ID: CS 192
Date Collected: 04/15/25 12:29
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 19:29
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 19:29
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 13:13
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 13:13
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 01:01

Client Sample ID: CS 195
Date Collected: 04/15/25 12:22
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			107892	MNR	EET MID	04/16/25 14:28
Total/NA	Analysis	8021B		1	107933	MNR	EET MID	04/17/25 19:49
Total/NA	Analysis	Total BTEX		1	108018	SM	EET MID	04/17/25 19:49
Total/NA	Analysis	8015 NM		1	107954	SM	EET MID	04/21/25 13:28
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 13:28

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Client Sample ID: CS 195

Date Collected: 04/15/25 12:22
Date Received: 04/16/25 08:27

Lab Sample ID: 880-56962-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107897	SI	EET MID	04/16/25 15:27
Soluble	Analysis	300.0		1	107903	CH	EET MID	04/17/25 01:07

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-56962-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-56962-1	CS 196	Solid	04/15/25 12:16	04/16/25 08:27
880-56962-2	CS 198	Solid	04/15/25 12:20	04/16/25 08:27
880-56962-3	CS 188	Solid	04/15/25 12:14	04/16/25 08:27
880-56962-4	CS 189	Solid	04/15/25 12:25	04/16/25 08:27
880-56962-5	CS 203	Solid	04/15/25 13:32	04/16/25 08:27
880-56962-6	CS 187	Solid	04/15/25 13:34	04/16/25 08:27
880-56962-7	CS 191	Solid	04/15/25 13:40	04/16/25 08:27
880-56962-9	CS 197	Solid	04/15/25 13:46	04/16/25 08:27
880-56962-10	CS 190	Solid	04/15/25 11:12	04/16/25 08:27
880-56962-11	CS 193	Solid	04/15/25 11:14	04/16/25 08:27
880-56962-12	CS 221	Solid	04/15/25 11:18	04/16/25 08:27
880-56962-13	CS 224	Solid	04/15/25 11:19	04/16/25 08:27
880-56962-15	CS 230	Solid	04/15/25 11:28	04/16/25 08:27
880-56962-16	CS 234	Solid	04/15/25 11:30	04/16/25 08:27
880-56962-17	CS 189	Solid	04/15/25 12:28	04/16/25 08:27
880-56962-18	CS 192	Solid	04/15/25 12:29	04/16/25 08:27
880-56962-19	CS 195	Solid	04/15/25 12:22	04/16/25 08:27

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Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-56962 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum LLC.	Company Name:	
Address:	601 N Marienfeld st 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flathead FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	030383001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Leadin, Raphael		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-0.6
Total Containers:		Corrected Temperature:	-0.7

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Chlorides 300.0	TPH (8015)	BTEX (8021)	Sample Comments
CS 196	S	9/15/25	1216	0.5	C	1		X	X	X	
CS 198			1226								
CS 188			1214								
CS 189			1225								
CS 203			1332								
CS 187			1334								
CS 191			1340								
CS 194			1342								
CS 197			1346								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9/16/25 0827	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-56962-1
SDG Number: Eddy County

Login Number: 56962
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Flatland FNR Frac Line
Eddy County

JOB NUMBER

880-57032-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:31 PM

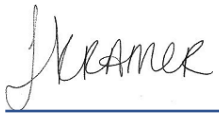
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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4/23/2025 2:29:02 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Laboratory Job ID: 880-57032-1
SDG: Eddy County

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-57032-1
Project: Flatland FNR Frac Line

Job ID: 880-57032-1 Eurofins Midland

Job Narrative
880-57032-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/17/2025 9:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.1°C.

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: CS 236 (880-57032-30). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108183 and analytical batch 880-108179 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-108183 and analytical batch 880-108179 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS 232 (880-57032-27) and (890-8013-A-1-D). 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: CS 237 (880-57032-31), (CCV 880-108176/20) and (CCV 880-108176/33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108228 and analytical batch 880-108292 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-108228 and analytical batch 880-108292 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS 225 (880-57032-21), CS 226 (880-57032-22), CS 227 (880-57032-23), CS 228 (880-57032-24), CS 229 (880-57032-25) and CS 231 (880-57032-26). 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.

Diesel Range Organics
Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-108053 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-108053/57).

Method 8015MOD_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: CS 205 (880-57032-5), CS 217 (880-57032-15), CS 218 (880-57032-16), CS 219 (880-57032-17), CS 220 (880-57032-18), CS 222 (880-57032-19), CS 223 (880-57032-20), CS 225 (880-57032-21), CS 226 (880-57032-22), CS 227 (880-57032-23), CS 228

Case Narrative

Client: Ensolum Job ID: 880-57032-1
Project: Flatland FNR Frac Line

Job ID: 880-57032-1 (Continued) Eurofins Midland

(880-57032-24), (LCS 880-108003/2-A), (LCSD 880-108003/3-A) and (MB 880-108003/1-A). Percent recoveries are based on the amount spiked.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-108004 and analytical batch 880-108175 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 229 (880-57032-25), CS 231 (880-57032-26), CS 233 (880-57032-28), CS 235 (880-57032-29), CS 237 (880-57032-31), (LCS 880-108004/2-A), (LCSD 880-108004/3-A), (880-57032-A-25-C MS) and (880-57032-A-25-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-108004 and analytical batch 880-108175 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-108004 and analytical batch 880-108175 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 200 (880-57032-1), CS 204 (880-57032-4), (880-56962-A-15-C), (880-56962-A-15-D MS) and (880-56962-A-15-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-107949 and analytical batch 880-108189 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-108189 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is:(CCV 880-108189/32).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 200

Lab Sample ID: 880-57032-1
Matrix: Solid
Date Collected: 04/16/25 10:38
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/18/25 14:56	04/18/25 22:24	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		04/18/25 14:56	04/18/25 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:24*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			04/18/25 22:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/25 17:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 17:24*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 17:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		9.92		mg/Kg			04/17/25 20:22	1

Client Sample ID: CS 201

Lab Sample ID: 880-57032-2
Matrix: Solid
Date Collected: 04/16/25 10:39
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/18/25 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:45*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 201

Date Collected: 04/16/25 10:39
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/18/25 22:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			04/21/25 17:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		04/17/25 11:23	04/21/25 17:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		04/17/25 11:23	04/21/25 17:39	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		04/17/25 11:23	04/21/25 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*04/17/25 11:23*	*04/21/25 17:39*	*1*
o-Terphenyl	*122*		*70 - 130*	*04/17/25 11:23*	*04/21/25 17:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.8**		9.98	mg/Kg			04/17/25 20:28	1

Client Sample ID: CS 202

Date Collected: 04/16/25 10:40
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/18/25 14:56	04/18/25 23:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/18/25 14:56	04/18/25 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:05*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/18/25 23:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/21/25 17:53	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 202

Lab Sample ID: 880-57032-3
Matrix: Solid
Date Collected: 04/16/25 10:40
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*04/17/25 11:23*	*04/21/25 17:53*	*1*
o-Terphenyl	*129*		*70 - 130*	*04/17/25 11:23*	*04/21/25 17:53*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.4**		10.1		mg/Kg			04/17/25 20:34	1

Client Sample ID: CS 204

Lab Sample ID: 880-57032-4
Matrix: Solid
Date Collected: 04/16/25 10:42
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/18/25 23:26	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/18/25 14:56	04/18/25 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:26*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/18/25 23:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			04/21/25 18:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/17/25 11:23	04/21/25 18:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/17/25 11:23	04/21/25 18:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/17/25 11:23	04/21/25 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 18:08*	*1*
o-Terphenyl	*138*	*S1+*	*70 - 130*	*04/17/25 11:23*	*04/21/25 18:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 204

Lab Sample ID: 880-57032-4
Matrix: Solid
Date Collected: 04/16/25 10:42
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.0		10.0		mg/Kg			04/17/25 20:40	1

Client Sample ID: CS 205

Lab Sample ID: 880-57032-5
Matrix: Solid
Date Collected: 04/16/25 10:43
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00298		0.00200		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
Toluene	0.00428		0.00200		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
Ethylbenzene	0.00773	B	0.00200		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
m-Xylene & p-Xylene	0.00568		0.00401		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
o-Xylene	0.00578		0.00200		mg/Kg		04/18/25 14:56	04/18/25 23:46	1
Xylenes, Total	0.0115		0.00401		mg/Kg		04/18/25 14:56	04/18/25 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/18/25 14:56*	*04/18/25 23:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0265		0.00401		mg/Kg			04/18/25 23:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 00:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 00:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 00:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*37*	*S1-*	*70 - 130*	*04/17/25 15:38*	*04/19/25 00:04*	*1*
o-Terphenyl	*43*	*S1-*	*70 - 130*	*04/17/25 15:38*	*04/19/25 00:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		10.0		mg/Kg			04/17/25 20:45	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 206

Lab Sample ID: 880-57032-6
Matrix: Solid
Date Collected: 04/16/25 10:44
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
Toluene	**0.00272**		0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:07	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/19/25 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:07*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			04/19/25 00:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/19/25 01:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:06*	*1*
o-Terphenyl	*97*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84.8**		9.96		mg/Kg			04/17/25 20:51	1

Client Sample ID: CS 207

Lab Sample ID: 880-57032-7
Matrix: Solid
Date Collected: 04/16/25 10:47
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
Toluene	**0.00203**		0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
Ethylbenzene	**0.00251**	**B**	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 00:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 00:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:27*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 207

Lab Sample ID: 880-57032-7
Matrix: Solid
Date Collected: 04/16/25 10:47
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00454**		0.00399	mg/Kg			04/19/25 00:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/19/25 01:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/17/25 15:38	04/19/25 01:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/17/25 15:38	04/19/25 01:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/17/25 15:38	04/19/25 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:26*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.2**		9.96	mg/Kg			04/17/25 21:08	1

Client Sample ID: CS 208

Lab Sample ID: 880-57032-8
Matrix: Solid
Date Collected: 04/16/25 10:48
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
Toluene	**0.00316**		0.00202	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
Ethylbenzene	**0.00272**	**B**	0.00202	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 00:48	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/18/25 14:56	04/19/25 00:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:48*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*04/18/25 14:56*	*04/19/25 00:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00588**		0.00403	mg/Kg			04/19/25 00:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/19/25 01:47	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 208

Lab Sample ID: 880-57032-8
Matrix: Solid
Date Collected: 04/16/25 10:48
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:47*	*1*
o-Terphenyl	*92*		*70 - 130*	*04/17/25 15:38*	*04/19/25 01:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**124**		10.1		mg/Kg			04/17/25 21:14	1

Client Sample ID: CS 209

Lab Sample ID: 880-57032-9
Matrix: Solid
Date Collected: 04/16/25 11:06
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 01:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/18/25 14:56*	*04/19/25 01:08*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*04/18/25 14:56*	*04/19/25 01:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/19/25 01:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/19/25 02:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:08*	*1*
o-Terphenyl	*95*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 209

Lab Sample ID: 880-57032-9
Matrix: Solid
Date Collected: 04/16/25 11:06
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.4		9.96		mg/Kg			04/17/25 21:31	1

Client Sample ID: CS 212

Lab Sample ID: 880-57032-10
Matrix: Solid
Date Collected: 04/16/25 11:10
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00252		0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 01:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 01:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 01:29*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 01:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/19/25 01:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/19/25 02:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 02:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:28*	*1*
o-Terphenyl	*89*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		9.98		mg/Kg			04/17/25 21:37	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 213

Date Collected: 04/16/25 11:14
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
Ethylbenzene	**0.00212**	**B**	0.00199		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
o-Xylene	**0.00267**		0.00199		mg/Kg		04/18/25 14:56	04/19/25 03:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/18/25 14:56	04/19/25 03:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:03*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00479**		0.00398		mg/Kg			04/19/25 03:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 02:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 02:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 02:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:49*	*1*
o-Terphenyl	*103*		*70 - 130*	*04/17/25 15:38*	*04/19/25 02:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**62.2**		9.96		mg/Kg			04/17/25 21:43	1

Client Sample ID: CS 214

Date Collected: 04/16/25 11:16
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00208**		0.00200		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 03:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:23*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 214

Lab Sample ID: 880-57032-12
Matrix: Solid
Date Collected: 04/16/25 11:16
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/19/25 03:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			04/19/25 03:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 03:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 03:09	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:09*	*1*
o-Terphenyl	*114*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**271**		9.98	mg/Kg			04/17/25 21:49	1

Client Sample ID: CS 215

Lab Sample ID: 880-57032-13
Matrix: Solid
Date Collected: 04/16/25 11:18
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		04/18/25 14:56	04/19/25 03:44	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		04/18/25 14:56	04/19/25 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:44*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 03:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			04/19/25 03:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/19/25 03:29	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 215

Lab Sample ID: 880-57032-13
Matrix: Solid
Date Collected: 04/16/25 11:18
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 03:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 03:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:29*	*1*
o-Terphenyl	*91*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.8**		10.1		mg/Kg			04/17/25 21:55	1

Client Sample ID: CS 216

Lab Sample ID: 880-57032-14
Matrix: Solid
Date Collected: 04/16/25 11:19
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:04	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/18/25 14:56	04/19/25 04:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:04*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/19/25 04:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/19/25 03:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 03:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 03:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:50*	*1*
o-Terphenyl	*93*		*70 - 130*	*04/17/25 15:38*	*04/19/25 03:50*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 216

Lab Sample ID: 880-57032-14
Matrix: Solid
Date Collected: 04/16/25 11:19
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		10.0		mg/Kg			04/17/25 22:00	1

Client Sample ID: CS 217

Lab Sample ID: 880-57032-15
Matrix: Solid
Date Collected: 04/16/25 11:38
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
Toluene	**0.00206**		0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 04:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 14:56	04/19/25 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:25*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/19/25 04:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 04:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 04:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 04:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 04:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*04/17/25 15:38*	*04/19/25 04:31*	*1*
o-Terphenyl	*99*		*70 - 130*	*04/17/25 15:38*	*04/19/25 04:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**81.4**		10.0		mg/Kg			04/17/25 22:06	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 218

Date Collected: 04/16/25 11:40
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/18/25 14:56	04/19/25 04:46	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/18/25 14:56	04/19/25 04:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:46*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*04/18/25 14:56*	*04/19/25 04:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			04/19/25 04:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/19/25 04:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 04:51	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 04:51	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:38	04/19/25 04:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 04:51*	*1*
o-Terphenyl	*180*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 04:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.5**		9.92		mg/Kg			04/17/25 23:08	1

Client Sample ID: CS 219

Date Collected: 04/16/25 11:42
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/19/25 05:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/19/25 05:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:06*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 219

Lab Sample ID: 880-57032-17
Matrix: Solid
Date Collected: 04/16/25 11:42
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			04/19/25 05:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/19/25 05:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/17/25 15:38	04/19/25 05:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/17/25 15:38	04/19/25 05:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/17/25 15:38	04/19/25 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*159*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:12*	*1*
o-Terphenyl	*173*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**93.8**		10.1	mg/Kg			04/17/25 23:19	1

Client Sample ID: CS 220

Lab Sample ID: 880-57032-18
Matrix: Solid
Date Collected: 04/16/25 11:44
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/18/25 14:56	04/19/25 05:26	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		04/18/25 14:56	04/19/25 05:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:26*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			04/19/25 05:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/19/25 05:33	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 220

Lab Sample ID: 880-57032-18
Matrix: Solid
Date Collected: 04/16/25 11:44
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 05:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 05:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 05:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:33*	*1*
o-Terphenyl	*186*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**98.0**		10.0		mg/Kg			04/17/25 23:26	1

Client Sample ID: CS 222

Lab Sample ID: 880-57032-19
Matrix: Solid
Date Collected: 04/16/25 11:46
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
Toluene	**0.00746**		0.00202		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 05:47	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/18/25 14:56	04/19/25 05:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:47*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*04/18/25 14:56*	*04/19/25 05:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00746**		0.00403		mg/Kg			04/19/25 05:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/19/25 05:53	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 05:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 05:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:38	04/19/25 05:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*162*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:53*	*1*
o-Terphenyl	*172*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 05:53*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 222

Lab Sample ID: 880-57032-19
Matrix: Solid
Date Collected: 04/16/25 11:46
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	113		9.92		mg/Kg			04/17/25 23:33	1

Client Sample ID: CS 223

Lab Sample ID: 880-57032-20
Matrix: Solid
Date Collected: 04/16/25 11:48
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
Toluene	0.00281		0.00202		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 14:56	04/19/25 06:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/18/25 14:56	04/19/25 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*04/18/25 14:56*	*04/19/25 06:08*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*04/18/25 14:56*	*04/19/25 06:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/19/25 06:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 06:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*171*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:14*	*1*
o-Terphenyl	*181*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	61.1		10.1		mg/Kg			04/17/25 23:41	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 225

Lab Sample ID: 880-57032-21
Matrix: Solid
Date Collected: 04/16/25 12:00
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 15:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/25 12:58	04/22/25 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*138*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 15:47*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*04/21/25 12:58*	*04/22/25 15:47*	*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			04/22/25 15:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 06:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 06:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:34*	*1*
o-Terphenyl	*165*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**101**		10.0		mg/Kg			04/18/25 00:02	1

Client Sample ID: CS 226

Lab Sample ID: 880-57032-22
Matrix: Solid
Date Collected: 04/16/25 12:02
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:07	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/21/25 12:58	04/22/25 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 16:07*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 226

Lab Sample ID: 880-57032-22
Matrix: Solid
Date Collected: 04/16/25 12:02
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*04/21/25 12:58*	*04/22/25 16:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/22/25 16:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			04/19/25 06:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 06:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 06:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		04/17/25 15:38	04/19/25 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*158*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:54*	*1*
o-Terphenyl	*176*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 06:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**196**		10.1	mg/Kg			04/18/25 00:09	1

Client Sample ID: CS 227

Lab Sample ID: 880-57032-23
Matrix: Solid
Date Collected: 04/16/25 12:03
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/21/25 12:58	04/22/25 16:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/21/25 12:58	04/22/25 16:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 16:28*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*04/21/25 12:58*	*04/22/25 16:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/22/25 16:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/19/25 07:14	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 227

Lab Sample ID: 880-57032-23
Matrix: Solid
Date Collected: 04/16/25 12:03
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*160*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 07:14*	*1*
o-Terphenyl	*172*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 07:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.9**		10.0		mg/Kg			04/18/25 00:17	1

Client Sample ID: CS 228

Lab Sample ID: 880-57032-24
Matrix: Solid
Date Collected: 04/16/25 12:04
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 16:48	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/21/25 12:58	04/22/25 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 16:48*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*04/21/25 12:58*	*04/22/25 16:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			04/22/25 16:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/19/25 07:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:38	04/19/25 07:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*160*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 07:35*	*1*
o-Terphenyl	*171*	*S1+*	*70 - 130*	*04/17/25 15:38*	*04/19/25 07:35*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 228

Lab Sample ID: 880-57032-24
Matrix: Solid
Date Collected: 04/16/25 12:04
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	97.1		10.0		mg/Kg			04/18/25 08:28	1

Client Sample ID: CS 229

Lab Sample ID: 880-57032-25
Matrix: Solid
Date Collected: 04/16/25 12:06
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/25 12:58	04/22/25 17:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/25 12:58	04/22/25 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*172*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 17:09*	*1*
1,4-Difluorobenzene (Surr)	*122*		*70 - 130*	*04/21/25 12:58*	*04/22/25 17:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			04/22/25 17:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/21/25 12:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 12:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1 F1	49.8		mg/Kg		04/17/25 15:41	04/21/25 12:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 12:14*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 12:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.5		10.0		mg/Kg			04/18/25 00:26	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 231

Lab Sample ID: 880-57032-26
Matrix: Solid
Date Collected: 04/16/25 12:08
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/21/25 12:58	04/22/25 17:29	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		04/21/25 12:58	04/22/25 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*04/21/25 12:58*	*04/22/25 17:29*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*04/21/25 12:58*	*04/22/25 17:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			04/22/25 17:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/21/25 13:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 13:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		04/17/25 15:41	04/21/25 13:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 13:15*	*1*
o-Terphenyl	*73*		*70 - 130*	*04/17/25 15:41*	*04/21/25 13:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.8**		9.92		mg/Kg			04/18/25 00:33	1

Client Sample ID: CS 232

Lab Sample ID: 880-57032-27
Matrix: Solid
Date Collected: 04/16/25 12:10
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 15:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*04/21/25 09:09*	*04/21/25 15:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 232

Lab Sample ID: 880-57032-27
Matrix: Solid
Date Collected: 04/16/25 12:10
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*04/21/25 09:09*	*04/21/25 15:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			04/21/25 15:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			04/21/25 13:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		04/17/25 15:41	04/21/25 13:35	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		04/17/25 15:41	04/21/25 13:35	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		04/17/25 15:41	04/21/25 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*04/17/25 15:41*	*04/21/25 13:35*	*1*
o-Terphenyl	*74*		*70 - 130*	*04/17/25 15:41*	*04/21/25 13:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**54.3**		9.98	mg/Kg			04/18/25 00:54	1

Client Sample ID: CS 233

Lab Sample ID: 880-57032-28
Matrix: Solid
Date Collected: 04/16/25 12:12
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/21/25 09:09	04/21/25 15:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/21/25 09:09	04/21/25 15:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*04/21/25 09:09*	*04/21/25 15:44*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*04/21/25 09:09*	*04/21/25 15:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/21/25 15:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/21/25 13:55	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 233

Lab Sample ID: 880-57032-28
Matrix: Solid
Date Collected: 04/16/25 12:12
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:41	04/21/25 13:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		04/17/25 15:41	04/21/25 13:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:41	04/21/25 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*64*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 13:55*	*1*
o-Terphenyl	*65*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 13:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**94.8**		10.1		mg/Kg			04/18/25 01:02	1

Client Sample ID: CS 235

Lab Sample ID: 880-57032-29
Matrix: Solid
Date Collected: 04/16/25 12:14
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/21/25 09:09	04/21/25 16:05	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/21/25 09:09	04/21/25 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*04/21/25 09:09*	*04/21/25 16:05*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*04/21/25 09:09*	*04/21/25 16:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			04/21/25 16:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/21/25 14:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 14:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		04/17/25 15:41	04/21/25 14:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/17/25 15:41	04/21/25 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*04/17/25 15:41*	*04/21/25 14:15*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 14:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 235

Lab Sample ID: 880-57032-29
Matrix: Solid
Date Collected: 04/16/25 12:14
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	75.7		9.92		mg/Kg			04/18/25 01:23	1

Client Sample ID: CS 236

Lab Sample ID: 880-57032-30
Matrix: Solid
Date Collected: 04/16/25 12:15
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 16:56	04/21/25 14:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/18/25 16:56	04/21/25 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*04/18/25 16:56*	*04/21/25 14:27*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*04/18/25 16:56*	*04/21/25 14:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/21/25 14:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			04/21/25 14:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/17/25 15:41	04/21/25 14:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		04/17/25 15:41	04/21/25 14:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/17/25 15:41	04/21/25 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*04/17/25 15:41*	*04/21/25 14:36*	*1*
o-Terphenyl	*78*		*70 - 130*	*04/17/25 15:41*	*04/21/25 14:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.3		10.1		mg/Kg			04/18/25 01:30	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 237

Date Collected: 04/16/25 12:30
Date Received: 04/17/25 09:03
Sample Depth: 0.5

Lab Sample ID: 880-57032-31

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/18/25 16:56	04/21/25 17:02	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		04/18/25 16:56	04/21/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*153*	*S1+*	*70 - 130*	*04/18/25 16:56*	*04/21/25 17:02*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*04/18/25 16:56*	*04/21/25 17:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			04/21/25 17:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/21/25 15:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:41	04/21/25 15:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		04/17/25 15:41	04/21/25 15:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:41	04/21/25 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*04/17/25 15:41*	*04/21/25 15:34*	*1*
o-Terphenyl	*72*		*70 - 130*	*04/17/25 15:41*	*04/21/25 15:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**90.9**		10.0		mg/Kg			04/18/25 01:37	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57032-1	CS 200	113	75
880-57032-1 MS	CS 200	105	107
880-57032-1 MSD	CS 200	100	110
880-57032-2	CS 201	92	86
880-57032-3	CS 202	100	99
880-57032-4	CS 204	98	90
880-57032-5	CS 205	110	100
880-57032-6	CS 206	106	100
880-57032-7	CS 207	98	95
880-57032-8	CS 208	93	81
880-57032-9	CS 209	96	94
880-57032-10	CS 212	95	95
880-57032-11	CS 213	125	74
880-57032-12	CS 214	92	96
880-57032-13	CS 215	90	95
880-57032-14	CS 216	95	83
880-57032-15	CS 217	86	86
880-57032-16	CS 218	98	90
880-57032-17	CS 219	106	98
880-57032-18	CS 220	96	101
880-57032-19	CS 222	99	84
880-57032-20	CS 223	94	99
880-57032-21	CS 225	138 S1+	117
880-57032-22	CS 226	132 S1+	110
880-57032-23	CS 227	141 S1+	119
880-57032-24	CS 228	140 S1+	112
880-57032-25	CS 229	172 S1+	122
880-57032-26	CS 231	141 S1+	116
880-57032-27	CS 232	131 S1+	105
880-57032-28	CS 233	125	104
880-57032-29	CS 235	125	108
880-57032-30	CS 236	147 S1+	78
880-57032-31	CS 237	153 S1+	81
LCS 880-108026/1-A	Lab Control Sample	135 S1+	86
LCS 880-108124/1-A	Lab Control Sample	86	111
LCS 880-108183/1-A	Lab Control Sample	118	106
LCS 880-108228/1-A	Lab Control Sample	124	109
LCSD 880-108026/2-A	Lab Control Sample Dup	144 S1+	89
LCSD 880-108124/2-A	Lab Control Sample Dup	96	112
LCSD 880-108183/2-A	Lab Control Sample Dup	125	103
LCSD 880-108228/2-A	Lab Control Sample Dup	113	110
MB 880-108026/5-A	Method Blank	145 S1+	78
MB 880-108041/5-A	Method Blank	98	71
MB 880-108124/5-A	Method Blank	97	74
MB 880-108183/5-A	Method Blank	178 S1+	97
MB 880-108228/5-A	Method Blank	179 S1+	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57032-1	CS 200	133 S1+	133 S1+
880-57032-2	CS 201	122	122
880-57032-3	CS 202	129	129
880-57032-4	CS 204	140 S1+	138 S1+
880-57032-5	CS 205	37 S1-	43 S1-
880-57032-5 MS	CS 205	79	83
880-57032-5 MSD	CS 205	78	81
880-57032-6	CS 206	86	97
880-57032-7	CS 207	78	90
880-57032-8	CS 208	84	92
880-57032-9	CS 209	87	95
880-57032-10	CS 212	84	89
880-57032-11	CS 213	97	103
880-57032-12	CS 214	103	114
880-57032-13	CS 215	81	91
880-57032-14	CS 216	82	93
880-57032-15	CS 217	87	99
880-57032-16	CS 218	161 S1+	180 S1+
880-57032-17	CS 219	159 S1+	173 S1+
880-57032-18	CS 220	166 S1+	186 S1+
880-57032-19	CS 222	162 S1+	172 S1+
880-57032-20	CS 223	171 S1+	181 S1+
880-57032-21	CS 225	151 S1+	165 S1+
880-57032-22	CS 226	158 S1+	176 S1+
880-57032-23	CS 227	160 S1+	172 S1+
880-57032-24	CS 228	160 S1+	171 S1+
880-57032-25	CS 229	66 S1-	69 S1-
880-57032-25 MS	CS 229	63 S1-	60 S1-
880-57032-25 MSD	CS 229	63 S1-	59 S1-
880-57032-26	CS 231	69 S1-	73
880-57032-27	CS 232	70	74
880-57032-28	CS 233	64 S1-	65 S1-
880-57032-29	CS 235	71	69 S1-
880-57032-30	CS 236	76	78
880-57032-31	CS 237	68 S1-	72
LCS 880-107949/2-A	Lab Control Sample	110	105
LCS 880-108003/2-A	Lab Control Sample	317 S1+	341 S1+
LCS 880-108004/2-A	Lab Control Sample	14 S1-	11 S1-
LCSD 880-107949/3-A	Lab Control Sample Dup	111	107
LCSD 880-108003/3-A	Lab Control Sample Dup	456 S1+	488 S1+
LCSD 880-108004/3-A	Lab Control Sample Dup	18 S1-	13 S1-
MB 880-107949/1-A	Method Blank	85	90
MB 880-108003/1-A	Method Blank	182 S1+	206 S1+
MB 880-108004/1-A	Method Blank	58 S1-	59 S1-

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-108026/5-A
Matrix: Solid
Analysis Batch: 108176

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108026

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/25 16:56	04/21/25 12:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/25 16:56	04/21/25 12:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*145*	*S1+*	*70 - 130*	*04/17/25 16:56*	*04/21/25 12:03*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*04/17/25 16:56*	*04/21/25 12:03*	*1*

Lab Sample ID: LCS 880-108026/1-A
Matrix: Solid
Analysis Batch: 108176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108026

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1056		mg/Kg		106	70 - 130		
Toluene			0.100	0.09480		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09677		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1992		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1020		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*135*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: LCSD 880-108026/2-A
Matrix: Solid
Analysis Batch: 108176

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108026

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1079		mg/Kg		108	70 - 130	2	35
Toluene			0.100	0.09979		mg/Kg		100	70 - 130	5	35
Ethylbenzene			0.100	0.1016		mg/Kg		102	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2097		mg/Kg		105	70 - 130	5	35
o-Xylene			0.100	0.1080		mg/Kg		108	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*144*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: MB 880-108041/5-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108041

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/17/25 21:39	04/18/25 11:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/17/25 21:39	04/18/25 11:04	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-108041/5-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108041

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/17/25 21:39	04/18/25 11:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/17/25 21:39	04/18/25 11:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/17/25 21:39	04/18/25 11:04	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/17/25 21:39	04/18/25 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/17/25 21:39*	*04/18/25 11:04*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*04/17/25 21:39*	*04/18/25 11:04*	*1*

Lab Sample ID: MB 880-108124/5-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108124

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
Ethylbenzene	0.002165		0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/18/25 14:56	04/18/25 22:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/18/25 14:56	04/18/25 22:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:03*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*04/18/25 14:56*	*04/18/25 22:03*	*1*

Lab Sample ID: LCS 880-108124/1-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108124

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1172		mg/Kg		117	70 - 130		
Toluene			0.100	0.1114		mg/Kg		111	70 - 130		
Ethylbenzene			0.100	0.1101		mg/Kg		110	70 - 130		
m-Xylene & p-Xylene			0.200	0.1874		mg/Kg		94	70 - 130		
o-Xylene			0.100	0.1029		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-108124/2-A
Matrix: Solid
Analysis Batch: 108056

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108124

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1241		mg/Kg		124	70 - 130	6	35
Toluene			0.100	0.1153		mg/Kg		115	70 - 130	3	35
Ethylbenzene			0.100	0.1104		mg/Kg		110	70 - 130	0	35

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-108124/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108056 — **Prep Batch: 108124**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1894		mg/Kg		95	70 - 130	1	35
o-Xylene			0.100	0.1047		mg/Kg		105	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-57032-1 MS — **Client Sample ID: CS 200**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108056 — **Prep Batch: 108124**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08603		mg/Kg		84	70 - 130
Toluene	<0.00201	U	0.100	0.08723		mg/Kg		87	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09865		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1758		mg/Kg		88	70 - 130
o-Xylene	<0.00201	U	0.100	0.09772		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-57032-1 MSD — **Client Sample ID: CS 200**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108056 — **Prep Batch: 108124**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09211		mg/Kg		90	70 - 130	7	35
Toluene	<0.00201	U	0.100	0.07708		mg/Kg		77	70 - 130	12	35
Ethylbenzene	<0.00201	U	0.100	0.08666		mg/Kg		87	70 - 130	13	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1483		mg/Kg		74	70 - 130	17	35
o-Xylene	<0.00201	U	0.100	0.08333		mg/Kg		83	70 - 130	16	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: MB 880-108183/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108179 — **Prep Batch: 108183**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 09:09	04/21/25 13:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/25 09:09	04/21/25 13:13	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	178	S1+	70 - 130	04/21/25 09:09	04/21/25 13:13	1
1,4-Difluorobenzene (Surr)	97		70 - 130	04/21/25 09:09	04/21/25 13:13	1

Lab Sample ID: LCS 880-108183/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108179 — **Prep Batch: 108183**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09519		mg/Kg		95	70 - 130		
Toluene			0.100	0.08629		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.08673		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene			0.200	0.2055		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1038		mg/Kg		104	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-108183/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108179 — **Prep Batch: 108183**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09904		mg/Kg		99	70 - 130	4	35
Toluene			0.100	0.08132		mg/Kg		81	70 - 130	6	35
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130	18	35
m-Xylene & p-Xylene			0.200	0.2132		mg/Kg		107	70 - 130	4	35
o-Xylene			0.100	0.1043		mg/Kg		104	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	125		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-108228/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108292 — **Prep Batch: 108228**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 14:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 14:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 14:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/25 12:58	04/22/25 14:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/25 12:58	04/22/25 14:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/25 12:58	04/22/25 14:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	179	S1+	70 - 130	04/21/25 12:58	04/22/25 14:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/21/25 12:58	04/22/25 14:17	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-108228/1-A
Matrix: Solid
Analysis Batch: 108292

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108228

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1047		mg/Kg		105	70 - 130		
Toluene			0.100	0.09245		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09733		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.2172		mg/Kg		109	70 - 130		
o-Xylene			0.100	0.1104		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-108228/2-A
Matrix: Solid
Analysis Batch: 108292

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108228

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09622		mg/Kg		96	70 - 130	8	35
Toluene			0.100	0.09541		mg/Kg		95	70 - 130	3	35
Ethylbenzene			0.100	0.09476		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2000		mg/Kg		100	70 - 130	8	35
o-Xylene			0.100	0.09915		mg/Kg		99	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-107949/1-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 107949

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 11:23	04/21/25 09:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*04/17/25 11:23*	*04/21/25 09:44*	*1*
o-Terphenyl	*90*		*70 - 130*	*04/17/25 11:23*	*04/21/25 09:44*	*1*

Lab Sample ID: LCS 880-107949/2-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	742.9		mg/Kg		74	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-107949/2-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 107949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics (Over C10-C28)			1000	950.7		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-107949/3-A
Matrix: Solid
Analysis Batch: 108189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 107949

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	791.1		mg/Kg		79	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	976.2		mg/Kg		98	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: MB 880-108003/1-A
Matrix: Solid
Analysis Batch: 108053

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108003

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/18/25 23:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/18/25 23:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/18/25 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*182*	*S1+*	*70 - 130*	*04/17/25 15:35*	*04/18/25 23:03*	*1*
o-Terphenyl	*206*	*S1+*	*70 - 130*	*04/17/25 15:35*	*04/18/25 23:03*	*1*

Lab Sample ID: LCS 880-108003/2-A
Matrix: Solid
Analysis Batch: 108053

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108003

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	895.1		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1065		mg/Kg		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*317*	*S1+*	*70 - 130*
o-Terphenyl	*341*	*S1+*	*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-108003/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108053 — **Prep Batch: 108003**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	909.4		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1118		mg/Kg		112	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*456*	*S1+*	*70 - 130*
o-Terphenyl	*488*	*S1+*	*70 - 130*

Lab Sample ID: 880-57032-5 MS — **Client Sample ID: CS 205**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108053 — **Prep Batch: 108003**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	756.0		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	996	811.5		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*83*		*70 - 130*

Lab Sample ID: 880-57032-5 MSD — **Client Sample ID: CS 205**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108053 — **Prep Batch: 108003**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	753.9		mg/Kg		76	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	996	801.9		mg/Kg		81	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*78*		*70 - 130*
o-Terphenyl	*81*		*70 - 130*

Lab Sample ID: MB 880-108004/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108175 — **Prep Batch: 108004**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/21/25 08:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/21/25 08:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/17/25 15:35	04/21/25 08:56	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-108004/1-A
Matrix: Solid
Analysis Batch: 108175

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 108004

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	58	S1-	70 - 130	04/17/25 15:35	04/21/25 08:56	1
o-Terphenyl	59	S1-	70 - 130	04/17/25 15:35	04/21/25 08:56	1

Lab Sample ID: LCS 880-108004/2-A
Matrix: Solid
Analysis Batch: 108175

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 108004

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	834.9		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	838.3		mg/Kg		84	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	14	S1-	70 - 130
o-Terphenyl	11	S1-	70 - 130

Lab Sample ID: LCSD 880-108004/3-A
Matrix: Solid
Analysis Batch: 108175

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 108004

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	980.2		mg/Kg		98	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1035	*1	mg/Kg		103	70 - 130	21	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	18	S1-	70 - 130
o-Terphenyl	13	S1-	70 - 130

Lab Sample ID: 880-57032-25 MS
Matrix: Solid
Analysis Batch: 108175

Client Sample ID: CS 229
Prep Type: Total/NA
Prep Batch: 108004

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	945.2		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U *1 F1	998	621.1	F1	mg/Kg		61	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	63	S1-	70 - 130
o-Terphenyl	60	S1-	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-57032-25 MSD — **Client Sample ID: CS 229**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 108175 — **Prep Batch: 108004**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	956.3		mg/Kg		96	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U *1 F1	998	618.1	F1	mg/Kg		60	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*63*	*S1-*	*70 - 130*
o-Terphenyl	*59*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-107986/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/17/25 19:13	1

Lab Sample ID: LCS 880-107986/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	260.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-107986/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	261.0		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 880-57032-6 MS — **Client Sample ID: CS 206**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	84.8		249	347.9		mg/Kg		106	90 - 110		

Lab Sample ID: 880-57032-6 MSD — **Client Sample ID: CS 206**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 108014

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	84.8		249	348.0		mg/Kg		106	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-107987/1-A
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/17/25 22:47	1

Lab Sample ID: LCS 880-107987/2-A
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.4		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-107987/3-A
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	239.1		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-57032-16 MS
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: CS 218
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	92.5		248	331.3		mg/Kg		96	90 - 110		

Lab Sample ID: 880-57032-16 MSD
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: CS 218
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	92.5		248	348.6		mg/Kg		103	90 - 110	5	20

Lab Sample ID: 880-57032-26 MS
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: CS 231
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	80.8		248	353.8		mg/Kg		110	90 - 110		

Lab Sample ID: 880-57032-26 MSD
Matrix: Solid
Analysis Batch: 108017

Client Sample ID: CS 231
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.8		248	352.0		mg/Kg		109	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC VOA

Prep Batch: 108026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-30	CS 236	Total/NA	Solid	5035	
880-57032-31	CS 237	Total/NA	Solid	5035	
MB 880-108026/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108026/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108026/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 108041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-108041/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 108056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	8021B	108124
880-57032-2	CS 201	Total/NA	Solid	8021B	108124
880-57032-3	CS 202	Total/NA	Solid	8021B	108124
880-57032-4	CS 204	Total/NA	Solid	8021B	108124
880-57032-5	CS 205	Total/NA	Solid	8021B	108124
880-57032-6	CS 206	Total/NA	Solid	8021B	108124
880-57032-7	CS 207	Total/NA	Solid	8021B	108124
880-57032-8	CS 208	Total/NA	Solid	8021B	108124
880-57032-9	CS 209	Total/NA	Solid	8021B	108124
880-57032-10	CS 212	Total/NA	Solid	8021B	108124
880-57032-11	CS 213	Total/NA	Solid	8021B	108124
880-57032-12	CS 214	Total/NA	Solid	8021B	108124
880-57032-13	CS 215	Total/NA	Solid	8021B	108124
880-57032-14	CS 216	Total/NA	Solid	8021B	108124
880-57032-15	CS 217	Total/NA	Solid	8021B	108124
880-57032-16	CS 218	Total/NA	Solid	8021B	108124
880-57032-17	CS 219	Total/NA	Solid	8021B	108124
880-57032-18	CS 220	Total/NA	Solid	8021B	108124
880-57032-19	CS 222	Total/NA	Solid	8021B	108124
880-57032-20	CS 223	Total/NA	Solid	8021B	108124
MB 880-108041/5-A	Method Blank	Total/NA	Solid	8021B	108041
MB 880-108124/5-A	Method Blank	Total/NA	Solid	8021B	108124
LCS 880-108124/1-A	Lab Control Sample	Total/NA	Solid	8021B	108124
LCSD 880-108124/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108124
880-57032-1 MS	CS 200	Total/NA	Solid	8021B	108124
880-57032-1 MSD	CS 200	Total/NA	Solid	8021B	108124

Prep Batch: 108124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	5035	
880-57032-2	CS 201	Total/NA	Solid	5035	
880-57032-3	CS 202	Total/NA	Solid	5035	
880-57032-4	CS 204	Total/NA	Solid	5035	
880-57032-5	CS 205	Total/NA	Solid	5035	
880-57032-6	CS 206	Total/NA	Solid	5035	
880-57032-7	CS 207	Total/NA	Solid	5035	
880-57032-8	CS 208	Total/NA	Solid	5035	
880-57032-9	CS 209	Total/NA	Solid	5035	
880-57032-10	CS 212	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 108124 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-11	CS 213	Total/NA	Solid	5035	
880-57032-12	CS 214	Total/NA	Solid	5035	
880-57032-13	CS 215	Total/NA	Solid	5035	
880-57032-14	CS 216	Total/NA	Solid	5035	
880-57032-15	CS 217	Total/NA	Solid	5035	
880-57032-16	CS 218	Total/NA	Solid	5035	
880-57032-17	CS 219	Total/NA	Solid	5035	
880-57032-18	CS 220	Total/NA	Solid	5035	
880-57032-19	CS 222	Total/NA	Solid	5035	
880-57032-20	CS 223	Total/NA	Solid	5035	
MB 880-108124/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108124/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108124/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57032-1 MS	CS 200	Total/NA	Solid	5035	
880-57032-1 MSD	CS 200	Total/NA	Solid	5035	

Analysis Batch: 108176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-30	CS 236	Total/NA	Solid	8021B	108026
880-57032-31	CS 237	Total/NA	Solid	8021B	108026
MB 880-108026/5-A	Method Blank	Total/NA	Solid	8021B	108026
LCS 880-108026/1-A	Lab Control Sample	Total/NA	Solid	8021B	108026
LCSD 880-108026/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108026

Analysis Batch: 108179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-27	CS 232	Total/NA	Solid	8021B	108183
880-57032-28	CS 233	Total/NA	Solid	8021B	108183
880-57032-29	CS 235	Total/NA	Solid	8021B	108183
MB 880-108183/5-A	Method Blank	Total/NA	Solid	8021B	108183
LCS 880-108183/1-A	Lab Control Sample	Total/NA	Solid	8021B	108183
LCSD 880-108183/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108183

Prep Batch: 108183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-27	CS 232	Total/NA	Solid	5035	
880-57032-28	CS 233	Total/NA	Solid	5035	
880-57032-29	CS 235	Total/NA	Solid	5035	
MB 880-108183/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-108183/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108183/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 108228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-21	CS 225	Total/NA	Solid	5035	
880-57032-22	CS 226	Total/NA	Solid	5035	
880-57032-23	CS 227	Total/NA	Solid	5035	
880-57032-24	CS 228	Total/NA	Solid	5035	
880-57032-25	CS 229	Total/NA	Solid	5035	
880-57032-26	CS 231	Total/NA	Solid	5035	
MB 880-108228/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 108228 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-108228/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-108228/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 108234

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	Total BTEX	
880-57032-2	CS 201	Total/NA	Solid	Total BTEX	
880-57032-3	CS 202	Total/NA	Solid	Total BTEX	
880-57032-4	CS 204	Total/NA	Solid	Total BTEX	
880-57032-5	CS 205	Total/NA	Solid	Total BTEX	
880-57032-6	CS 206	Total/NA	Solid	Total BTEX	
880-57032-7	CS 207	Total/NA	Solid	Total BTEX	
880-57032-8	CS 208	Total/NA	Solid	Total BTEX	
880-57032-9	CS 209	Total/NA	Solid	Total BTEX	
880-57032-10	CS 212	Total/NA	Solid	Total BTEX	
880-57032-11	CS 213	Total/NA	Solid	Total BTEX	
880-57032-12	CS 214	Total/NA	Solid	Total BTEX	
880-57032-13	CS 215	Total/NA	Solid	Total BTEX	
880-57032-14	CS 216	Total/NA	Solid	Total BTEX	
880-57032-15	CS 217	Total/NA	Solid	Total BTEX	
880-57032-16	CS 218	Total/NA	Solid	Total BTEX	
880-57032-17	CS 219	Total/NA	Solid	Total BTEX	
880-57032-18	CS 220	Total/NA	Solid	Total BTEX	
880-57032-19	CS 222	Total/NA	Solid	Total BTEX	
880-57032-20	CS 223	Total/NA	Solid	Total BTEX	
880-57032-21	CS 225	Total/NA	Solid	Total BTEX	
880-57032-22	CS 226	Total/NA	Solid	Total BTEX	
880-57032-23	CS 227	Total/NA	Solid	Total BTEX	
880-57032-24	CS 228	Total/NA	Solid	Total BTEX	
880-57032-25	CS 229	Total/NA	Solid	Total BTEX	
880-57032-26	CS 231	Total/NA	Solid	Total BTEX	
880-57032-27	CS 232	Total/NA	Solid	Total BTEX	
880-57032-28	CS 233	Total/NA	Solid	Total BTEX	
880-57032-29	CS 235	Total/NA	Solid	Total BTEX	
880-57032-30	CS 236	Total/NA	Solid	Total BTEX	
880-57032-31	CS 237	Total/NA	Solid	Total BTEX	

Analysis Batch: 108292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-21	CS 225	Total/NA	Solid	8021B	108228
880-57032-22	CS 226	Total/NA	Solid	8021B	108228
880-57032-23	CS 227	Total/NA	Solid	8021B	108228
880-57032-24	CS 228	Total/NA	Solid	8021B	108228
880-57032-25	CS 229	Total/NA	Solid	8021B	108228
880-57032-26	CS 231	Total/NA	Solid	8021B	108228
MB 880-108228/5-A	Method Blank	Total/NA	Solid	8021B	108228
LCS 880-108228/1-A	Lab Control Sample	Total/NA	Solid	8021B	108228
LCSD 880-108228/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	108228

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 107949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	8015NM Prep	
880-57032-2	CS 201	Total/NA	Solid	8015NM Prep	
880-57032-3	CS 202	Total/NA	Solid	8015NM Prep	
880-57032-4	CS 204	Total/NA	Solid	8015NM Prep	
MB 880-107949/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-107949/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-107949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 108003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-5	CS 205	Total/NA	Solid	8015NM Prep	
880-57032-6	CS 206	Total/NA	Solid	8015NM Prep	
880-57032-7	CS 207	Total/NA	Solid	8015NM Prep	
880-57032-8	CS 208	Total/NA	Solid	8015NM Prep	
880-57032-9	CS 209	Total/NA	Solid	8015NM Prep	
880-57032-10	CS 212	Total/NA	Solid	8015NM Prep	
880-57032-11	CS 213	Total/NA	Solid	8015NM Prep	
880-57032-12	CS 214	Total/NA	Solid	8015NM Prep	
880-57032-13	CS 215	Total/NA	Solid	8015NM Prep	
880-57032-14	CS 216	Total/NA	Solid	8015NM Prep	
880-57032-15	CS 217	Total/NA	Solid	8015NM Prep	
880-57032-16	CS 218	Total/NA	Solid	8015NM Prep	
880-57032-17	CS 219	Total/NA	Solid	8015NM Prep	
880-57032-18	CS 220	Total/NA	Solid	8015NM Prep	
880-57032-19	CS 222	Total/NA	Solid	8015NM Prep	
880-57032-20	CS 223	Total/NA	Solid	8015NM Prep	
880-57032-21	CS 225	Total/NA	Solid	8015NM Prep	
880-57032-22	CS 226	Total/NA	Solid	8015NM Prep	
880-57032-23	CS 227	Total/NA	Solid	8015NM Prep	
880-57032-24	CS 228	Total/NA	Solid	8015NM Prep	
MB 880-108003/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108003/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57032-5 MS	CS 205	Total/NA	Solid	8015NM Prep	
880-57032-5 MSD	CS 205	Total/NA	Solid	8015NM Prep	

Prep Batch: 108004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-25	CS 229	Total/NA	Solid	8015NM Prep	
880-57032-26	CS 231	Total/NA	Solid	8015NM Prep	
880-57032-27	CS 232	Total/NA	Solid	8015NM Prep	
880-57032-28	CS 233	Total/NA	Solid	8015NM Prep	
880-57032-29	CS 235	Total/NA	Solid	8015NM Prep	
880-57032-30	CS 236	Total/NA	Solid	8015NM Prep	
880-57032-31	CS 237	Total/NA	Solid	8015NM Prep	
MB 880-108004/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-108004/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-108004/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57032-25 MS	CS 229	Total/NA	Solid	8015NM Prep	
880-57032-25 MSD	CS 229	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 108053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-5	CS 205	Total/NA	Solid	8015B NM	108003
880-57032-6	CS 206	Total/NA	Solid	8015B NM	108003
880-57032-7	CS 207	Total/NA	Solid	8015B NM	108003
880-57032-8	CS 208	Total/NA	Solid	8015B NM	108003
880-57032-9	CS 209	Total/NA	Solid	8015B NM	108003
880-57032-10	CS 212	Total/NA	Solid	8015B NM	108003
880-57032-11	CS 213	Total/NA	Solid	8015B NM	108003
880-57032-12	CS 214	Total/NA	Solid	8015B NM	108003
880-57032-13	CS 215	Total/NA	Solid	8015B NM	108003
880-57032-14	CS 216	Total/NA	Solid	8015B NM	108003
880-57032-15	CS 217	Total/NA	Solid	8015B NM	108003
880-57032-16	CS 218	Total/NA	Solid	8015B NM	108003
880-57032-17	CS 219	Total/NA	Solid	8015B NM	108003
880-57032-18	CS 220	Total/NA	Solid	8015B NM	108003
880-57032-19	CS 222	Total/NA	Solid	8015B NM	108003
880-57032-20	CS 223	Total/NA	Solid	8015B NM	108003
880-57032-21	CS 225	Total/NA	Solid	8015B NM	108003
880-57032-22	CS 226	Total/NA	Solid	8015B NM	108003
880-57032-23	CS 227	Total/NA	Solid	8015B NM	108003
880-57032-24	CS 228	Total/NA	Solid	8015B NM	108003
MB 880-108003/1-A	Method Blank	Total/NA	Solid	8015B NM	108003
LCS 880-108003/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108003
LCSD 880-108003/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108003
880-57032-5 MS	CS 205	Total/NA	Solid	8015B NM	108003
880-57032-5 MSD	CS 205	Total/NA	Solid	8015B NM	108003

Analysis Batch: 108175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-25	CS 229	Total/NA	Solid	8015B NM	108004
880-57032-26	CS 231	Total/NA	Solid	8015B NM	108004
880-57032-27	CS 232	Total/NA	Solid	8015B NM	108004
880-57032-28	CS 233	Total/NA	Solid	8015B NM	108004
880-57032-29	CS 235	Total/NA	Solid	8015B NM	108004
880-57032-30	CS 236	Total/NA	Solid	8015B NM	108004
880-57032-31	CS 237	Total/NA	Solid	8015B NM	108004
MB 880-108004/1-A	Method Blank	Total/NA	Solid	8015B NM	108004
LCS 880-108004/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	108004
LCSD 880-108004/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	108004
880-57032-25 MS	CS 229	Total/NA	Solid	8015B NM	108004
880-57032-25 MSD	CS 229	Total/NA	Solid	8015B NM	108004

Analysis Batch: 108189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	8015B NM	107949
880-57032-2	CS 201	Total/NA	Solid	8015B NM	107949
880-57032-3	CS 202	Total/NA	Solid	8015B NM	107949
880-57032-4	CS 204	Total/NA	Solid	8015B NM	107949
MB 880-107949/1-A	Method Blank	Total/NA	Solid	8015B NM	107949
LCS 880-107949/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	107949
LCSD 880-107949/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	107949

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 108201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Total/NA	Solid	8015 NM	
880-57032-2	CS 201	Total/NA	Solid	8015 NM	
880-57032-3	CS 202	Total/NA	Solid	8015 NM	
880-57032-4	CS 204	Total/NA	Solid	8015 NM	
880-57032-5	CS 205	Total/NA	Solid	8015 NM	
880-57032-6	CS 206	Total/NA	Solid	8015 NM	
880-57032-7	CS 207	Total/NA	Solid	8015 NM	
880-57032-8	CS 208	Total/NA	Solid	8015 NM	
880-57032-9	CS 209	Total/NA	Solid	8015 NM	
880-57032-10	CS 212	Total/NA	Solid	8015 NM	
880-57032-11	CS 213	Total/NA	Solid	8015 NM	
880-57032-12	CS 214	Total/NA	Solid	8015 NM	
880-57032-13	CS 215	Total/NA	Solid	8015 NM	
880-57032-14	CS 216	Total/NA	Solid	8015 NM	
880-57032-15	CS 217	Total/NA	Solid	8015 NM	
880-57032-16	CS 218	Total/NA	Solid	8015 NM	
880-57032-17	CS 219	Total/NA	Solid	8015 NM	
880-57032-18	CS 220	Total/NA	Solid	8015 NM	
880-57032-19	CS 222	Total/NA	Solid	8015 NM	
880-57032-20	CS 223	Total/NA	Solid	8015 NM	
880-57032-21	CS 225	Total/NA	Solid	8015 NM	
880-57032-22	CS 226	Total/NA	Solid	8015 NM	
880-57032-23	CS 227	Total/NA	Solid	8015 NM	
880-57032-24	CS 228	Total/NA	Solid	8015 NM	
880-57032-25	CS 229	Total/NA	Solid	8015 NM	
880-57032-26	CS 231	Total/NA	Solid	8015 NM	
880-57032-27	CS 232	Total/NA	Solid	8015 NM	
880-57032-28	CS 233	Total/NA	Solid	8015 NM	
880-57032-29	CS 235	Total/NA	Solid	8015 NM	
880-57032-30	CS 236	Total/NA	Solid	8015 NM	
880-57032-31	CS 237	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 107986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Soluble	Solid	DI Leach	
880-57032-2	CS 201	Soluble	Solid	DI Leach	
880-57032-3	CS 202	Soluble	Solid	DI Leach	
880-57032-4	CS 204	Soluble	Solid	DI Leach	
880-57032-5	CS 205	Soluble	Solid	DI Leach	
880-57032-6	CS 206	Soluble	Solid	DI Leach	
880-57032-7	CS 207	Soluble	Solid	DI Leach	
880-57032-8	CS 208	Soluble	Solid	DI Leach	
880-57032-9	CS 209	Soluble	Solid	DI Leach	
880-57032-10	CS 212	Soluble	Solid	DI Leach	
880-57032-11	CS 213	Soluble	Solid	DI Leach	
880-57032-12	CS 214	Soluble	Solid	DI Leach	
880-57032-13	CS 215	Soluble	Solid	DI Leach	
880-57032-14	CS 216	Soluble	Solid	DI Leach	
880-57032-15	CS 217	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 107986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-107986/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107986/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107986/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57032-6 MS	CS 206	Soluble	Solid	DI Leach	
880-57032-6 MSD	CS 206	Soluble	Solid	DI Leach	

Leach Batch: 107987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-16	CS 218	Soluble	Solid	DI Leach	
880-57032-17	CS 219	Soluble	Solid	DI Leach	
880-57032-18	CS 220	Soluble	Solid	DI Leach	
880-57032-19	CS 222	Soluble	Solid	DI Leach	
880-57032-20	CS 223	Soluble	Solid	DI Leach	
880-57032-21	CS 225	Soluble	Solid	DI Leach	
880-57032-22	CS 226	Soluble	Solid	DI Leach	
880-57032-23	CS 227	Soluble	Solid	DI Leach	
880-57032-24	CS 228	Soluble	Solid	DI Leach	
880-57032-25	CS 229	Soluble	Solid	DI Leach	
880-57032-26	CS 231	Soluble	Solid	DI Leach	
880-57032-27	CS 232	Soluble	Solid	DI Leach	
880-57032-28	CS 233	Soluble	Solid	DI Leach	
880-57032-29	CS 235	Soluble	Solid	DI Leach	
880-57032-30	CS 236	Soluble	Solid	DI Leach	
880-57032-31	CS 237	Soluble	Solid	DI Leach	
MB 880-107987/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-107987/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-107987/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57032-16 MS	CS 218	Soluble	Solid	DI Leach	
880-57032-16 MSD	CS 218	Soluble	Solid	DI Leach	
880-57032-26 MS	CS 231	Soluble	Solid	DI Leach	
880-57032-26 MSD	CS 231	Soluble	Solid	DI Leach	

Analysis Batch: 108014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-1	CS 200	Soluble	Solid	300.0	107986
880-57032-2	CS 201	Soluble	Solid	300.0	107986
880-57032-3	CS 202	Soluble	Solid	300.0	107986
880-57032-4	CS 204	Soluble	Solid	300.0	107986
880-57032-5	CS 205	Soluble	Solid	300.0	107986
880-57032-6	CS 206	Soluble	Solid	300.0	107986
880-57032-7	CS 207	Soluble	Solid	300.0	107986
880-57032-8	CS 208	Soluble	Solid	300.0	107986
880-57032-9	CS 209	Soluble	Solid	300.0	107986
880-57032-10	CS 212	Soluble	Solid	300.0	107986
880-57032-11	CS 213	Soluble	Solid	300.0	107986
880-57032-12	CS 214	Soluble	Solid	300.0	107986
880-57032-13	CS 215	Soluble	Solid	300.0	107986
880-57032-14	CS 216	Soluble	Solid	300.0	107986
880-57032-15	CS 217	Soluble	Solid	300.0	107986
MB 880-107986/1-A	Method Blank	Soluble	Solid	300.0	107986
LCS 880-107986/2-A	Lab Control Sample	Soluble	Solid	300.0	107986

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 108014 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-107986/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107986
880-57032-6 MS	CS 206	Soluble	Solid	300.0	107986
880-57032-6 MSD	CS 206	Soluble	Solid	300.0	107986

Analysis Batch: 108017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57032-16	CS 218	Soluble	Solid	300.0	107987
880-57032-17	CS 219	Soluble	Solid	300.0	107987
880-57032-18	CS 220	Soluble	Solid	300.0	107987
880-57032-19	CS 222	Soluble	Solid	300.0	107987
880-57032-20	CS 223	Soluble	Solid	300.0	107987
880-57032-21	CS 225	Soluble	Solid	300.0	107987
880-57032-22	CS 226	Soluble	Solid	300.0	107987
880-57032-23	CS 227	Soluble	Solid	300.0	107987
880-57032-24	CS 228	Soluble	Solid	300.0	107987
880-57032-25	CS 229	Soluble	Solid	300.0	107987
880-57032-26	CS 231	Soluble	Solid	300.0	107987
880-57032-27	CS 232	Soluble	Solid	300.0	107987
880-57032-28	CS 233	Soluble	Solid	300.0	107987
880-57032-29	CS 235	Soluble	Solid	300.0	107987
880-57032-30	CS 236	Soluble	Solid	300.0	107987
880-57032-31	CS 237	Soluble	Solid	300.0	107987
MB 880-107987/1-A	Method Blank	Soluble	Solid	300.0	107987
LCS 880-107987/2-A	Lab Control Sample	Soluble	Solid	300.0	107987
LCSD 880-107987/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	107987
880-57032-16 MS	CS 218	Soluble	Solid	300.0	107987
880-57032-16 MSD	CS 218	Soluble	Solid	300.0	107987
880-57032-26 MS	CS 231	Soluble	Solid	300.0	107987
880-57032-26 MSD	CS 231	Soluble	Solid	300.0	107987

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 200

Lab Sample ID: 880-57032-1
Matrix: Solid
Date Collected: 04/16/25 10:38
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 22:24
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 22:24
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 17:24
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 17:24
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:22

Client Sample ID: CS 201

Lab Sample ID: 880-57032-2
Matrix: Solid
Date Collected: 04/16/25 10:39
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 22:45
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 22:45
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 17:39
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 17:39
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:28

Client Sample ID: CS 202

Lab Sample ID: 880-57032-3
Matrix: Solid
Date Collected: 04/16/25 10:40
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 23:05
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 23:05
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 17:53
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 17:53
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:34

Client Sample ID: CS 204

Lab Sample ID: 880-57032-4
Matrix: Solid
Date Collected: 04/16/25 10:42
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 23:26
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 23:26

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 204
Date Collected: 04/16/25 10:42
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 18:08
Total/NA	Prep	8015NM Prep			107949	FC	EET MID	04/17/25 11:23
Total/NA	Analysis	8015B NM		1	108189	SM	EET MID	04/21/25 18:08
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:40

Client Sample ID: CS 205
Date Collected: 04/16/25 10:43
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/18/25 23:46
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/18/25 23:46
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 00:04
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 00:04
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:45

Client Sample ID: CS 206
Date Collected: 04/16/25 10:44
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 00:07
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 00:07
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 01:06
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 01:06
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 20:51

Client Sample ID: CS 207
Date Collected: 04/16/25 10:47
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 00:27
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 00:27
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 01:26
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 01:26

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 207

Date Collected: 04/16/25 10:47
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:08

Client Sample ID: CS 208

Date Collected: 04/16/25 10:48
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 00:48
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 00:48
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 01:47
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 01:47
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:14

Client Sample ID: CS 209

Date Collected: 04/16/25 11:06
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 01:08
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 01:08
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 02:08
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 02:08
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:31

Client Sample ID: CS 212

Date Collected: 04/16/25 11:10
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 01:29
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 01:29
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 02:28
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 02:28
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:37

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 213

Lab Sample ID: 880-57032-11
Matrix: Solid
Date Collected: 04/16/25 11:14
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 03:03
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 03:03
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 02:49
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 02:49
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:43

Client Sample ID: CS 214

Lab Sample ID: 880-57032-12
Matrix: Solid
Date Collected: 04/16/25 11:16
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 03:23
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 03:23
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 03:09
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 03:09
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:49

Client Sample ID: CS 215

Lab Sample ID: 880-57032-13
Matrix: Solid
Date Collected: 04/16/25 11:18
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 03:44
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 03:44
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 03:29
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 03:29
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 21:55

Client Sample ID: CS 216

Lab Sample ID: 880-57032-14
Matrix: Solid
Date Collected: 04/16/25 11:19
Date Received: 04/17/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 04:04
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 04:04

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 216

Date Collected: 04/16/25 11:19
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 03:50
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 03:50
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 22:00

Client Sample ID: CS 217

Date Collected: 04/16/25 11:38
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 04:25
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 04:25
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 04:31
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 04:31
Soluble	Leach	DI Leach			107986	SA	EET MID	04/17/25 13:58
Soluble	Analysis	300.0		1	108014	SMC	EET MID	04/17/25 22:06

Client Sample ID: CS 218

Date Collected: 04/16/25 11:40
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 04:46
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 04:46
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 04:51
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 04:51
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:08

Client Sample ID: CS 219

Date Collected: 04/16/25 11:42
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 05:06
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 05:06
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 05:12
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 05:12

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Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 219
Date Collected: 04/16/25 11:42
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:19

Client Sample ID: CS 220
Date Collected: 04/16/25 11:44
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 05:26
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 05:26
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 05:33
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 05:33
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:26

Client Sample ID: CS 222
Date Collected: 04/16/25 11:46
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 05:47
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 05:47
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 05:53
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 05:53
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:33

Client Sample ID: CS 223
Date Collected: 04/16/25 11:48
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108124	MNR	EET MID	04/18/25 14:56
Total/NA	Analysis	8021B		1	108056	MNR	EET MID	04/19/25 06:08
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/19/25 06:08
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 06:14
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 06:14
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/17/25 23:41

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 225
Date Collected: 04/16/25 12:00
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 15:47
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 15:47
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 06:34
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 06:34
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:02

Client Sample ID: CS 226
Date Collected: 04/16/25 12:02
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 16:07
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 16:07
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 06:54
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 06:54
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:09

Client Sample ID: CS 227
Date Collected: 04/16/25 12:03
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 16:28
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 16:28
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 07:14
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 07:14
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:17

Client Sample ID: CS 228
Date Collected: 04/16/25 12:04
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 16:48
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 16:48

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 228
Date Collected: 04/16/25 12:04
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/19/25 07:35
Total/NA	Prep	8015NM Prep			108003	EL	EET MID	04/17/25 15:38
Total/NA	Analysis	8015B NM		1	108053	AJ	EET MID	04/19/25 07:35
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 08:28

Client Sample ID: CS 229
Date Collected: 04/16/25 12:06
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 17:09
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 17:09
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 12:14
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 12:14
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:26

Client Sample ID: CS 231
Date Collected: 04/16/25 12:08
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108228	MNR	EET MID	04/21/25 12:58
Total/NA	Analysis	8021B		1	108292	MNR	EET MID	04/22/25 17:29
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/22/25 17:29
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 13:15
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 13:15
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:33

Client Sample ID: CS 232
Date Collected: 04/16/25 12:10
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108183	AA	EET MID	04/21/25 09:09
Total/NA	Analysis	8021B		1	108179	MNR	EET MID	04/21/25 15:24
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 15:24
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 13:35
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 13:35

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 232
Date Collected: 04/16/25 12:10
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 00:54

Client Sample ID: CS 233
Date Collected: 04/16/25 12:12
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108183	AA	EET MID	04/21/25 09:09
Total/NA	Analysis	8021B		1	108179	MNR	EET MID	04/21/25 15:44
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 15:44
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 13:55
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 13:55
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 01:02

Client Sample ID: CS 235
Date Collected: 04/16/25 12:14
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108183	AA	EET MID	04/21/25 09:09
Total/NA	Analysis	8021B		1	108179	MNR	EET MID	04/21/25 16:05
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 16:05
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 14:15
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 14:15
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 01:23

Client Sample ID: CS 236
Date Collected: 04/16/25 12:15
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108026	MNR	EET MID	04/18/25 16:56
Total/NA	Analysis	8021B		1	108176	MNR	EET MID	04/21/25 14:27
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 14:27
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 14:36
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 14:36
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 01:30

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Client Sample ID: CS 237

Date Collected: 04/16/25 12:30
Date Received: 04/17/25 09:03

Lab Sample ID: 880-57032-31

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			108026	MNR	EET MID	04/18/25 16:56
Total/NA	Analysis	8021B		1	108176	MNR	EET MID	04/21/25 17:02
Total/NA	Analysis	Total BTEX		1	108234	AJ	EET MID	04/21/25 17:02
Total/NA	Analysis	8015 NM		1	108201	AJ	EET MID	04/21/25 15:34
Total/NA	Prep	8015NM Prep			108004	EL	EET MID	04/17/25 15:41
Total/NA	Analysis	8015B NM		1	108175	SM	EET MID	04/21/25 15:34
Soluble	Leach	DI Leach			107987	SA	EET MID	04/17/25 14:00
Soluble	Analysis	300.0		1	108017	SMC	EET MID	04/18/25 01:37

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-57032-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-57032-1	CS 200	Solid	04/16/25 10:38	04/17/25 09:03	0.5
880-57032-2	CS 201	Solid	04/16/25 10:39	04/17/25 09:03	0.5
880-57032-3	CS 202	Solid	04/16/25 10:40	04/17/25 09:03	0.5
880-57032-4	CS 204	Solid	04/16/25 10:42	04/17/25 09:03	0.5
880-57032-5	CS 205	Solid	04/16/25 10:43	04/17/25 09:03	0.5
880-57032-6	CS 206	Solid	04/16/25 10:44	04/17/25 09:03	0.5
880-57032-7	CS 207	Solid	04/16/25 10:47	04/17/25 09:03	0.5
880-57032-8	CS 208	Solid	04/16/25 10:48	04/17/25 09:03	0.5
880-57032-9	CS 209	Solid	04/16/25 11:06	04/17/25 09:03	0.5
880-57032-10	CS 212	Solid	04/16/25 11:10	04/17/25 09:03	0.5
880-57032-11	CS 213	Solid	04/16/25 11:14	04/17/25 09:03	0.5
880-57032-12	CS 214	Solid	04/16/25 11:16	04/17/25 09:03	0.5
880-57032-13	CS 215	Solid	04/16/25 11:18	04/17/25 09:03	0.5
880-57032-14	CS 216	Solid	04/16/25 11:19	04/17/25 09:03	0.5
880-57032-15	CS 217	Solid	04/16/25 11:38	04/17/25 09:03	0.5
880-57032-16	CS 218	Solid	04/16/25 11:40	04/17/25 09:03	0.5
880-57032-17	CS 219	Solid	04/16/25 11:42	04/17/25 09:03	0.5
880-57032-18	CS 220	Solid	04/16/25 11:44	04/17/25 09:03	0.5
880-57032-19	CS 222	Solid	04/16/25 11:46	04/17/25 09:03	0.5
880-57032-20	CS 223	Solid	04/16/25 11:48	04/17/25 09:03	0.5
880-57032-21	CS 225	Solid	04/16/25 12:00	04/17/25 09:03	0.5
880-57032-22	CS 226	Solid	04/16/25 12:02	04/17/25 09:03	0.5
880-57032-23	CS 227	Solid	04/16/25 12:03	04/17/25 09:03	0.5
880-57032-24	CS 228	Solid	04/16/25 12:04	04/17/25 09:03	0.5
880-57032-25	CS 229	Solid	04/16/25 12:06	04/17/25 09:03	0.5
880-57032-26	CS 231	Solid	04/16/25 12:08	04/17/25 09:03	0.5
880-57032-27	CS 232	Solid	04/16/25 12:10	04/17/25 09:03	0.5
880-57032-28	CS 233	Solid	04/16/25 12:12	04/17/25 09:03	0.5
880-57032-29	CS 235	Solid	04/16/25 12:14	04/17/25 09:03	0.5
880-57032-30	CS 236	Solid	04/16/25 12:15	04/17/25 09:03	0.5
880-57032-31	CS 237	Solid	04/16/25 12:30	04/17/25 09:03	0.5

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-57032 Chain of Custody

www.xenco.com Page 4

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum LLC	Company Name:	Ensolum, LLC
Address:	609 N Marienfeld Street	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432 557 8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Raphael, Leandra		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	8.2
Total Containers:		Corrected Temperature:	8.1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides (300.0)	TPH (8015)	BTEX (8021)	Sample Comments
CS 200	S	4-16-25	1038	0.5	C	1		X	X	X	
CS 201	S		1039								
CS 202	S		1040								
CS 204	S		1042								
CS 205	S		1043								
CS 206	S		1044								
CS 207	S		1047								
CS 208	S		1048								
CS 209	S		1106								
CS 212	S	↓	1110	↓	↓	↓		↓	↓	↓	

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	103	4-16-25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 4

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432 557 8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac line	Turn Around	
Project Number:	03D383600 1	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Rapteal, Leandra	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides (EPA: 300.0)	Parameters: TPH (8015)	Parameters: BTEX (8021)	Sample Comments
CS 213	S	4/16/25	1114	0.5'	C	1		X	X	X	
CS 214	S		1116								
CS 215	S		1118								
CS 216	S		1119								
CS 217	S		1138								
CS 218	S		1140								
CS 219	S		1142								
CS 220	S		1144								
CS 222	S		1146								
CS 223	S		1148								

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	903	4-16-25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 4

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld Street	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR fracline	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Raphael, Leandra	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides 300.0	TPH (8015)	BTEX (8021)	Sample Comments
CS 225	S	4/16/25	1200	0.5	C	1		X	X	X	
CS 226	S		1202								
CS 227	S		1203								
CS 228	S		1204								
CS 229	S		1206								
CS 231	S		1208								
CS 232	S		1210								
CS 233	S		1212								
CS 235	S		1214								
CS 236	S	↓	1215	↓	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	903	4-14-23	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 4 of 4

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum LLC	Company Name:	Ensolum LLC
Address:	601 N Marienfield St	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432 557 8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Fracline	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Raphael Leandro	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides (EPA 300.0)	Parameters: TPH (8015)	Parameters: BTEX (8021)	Sample Comments
CS237	S	4/16/25	1230	0.5'	C	1		X	X	X	

NFE RY NFE 04/16/25 RY

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-57032-1
SDG Number: Eddy County

Login Number: 57032
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/5/2025 10:54:08 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8044-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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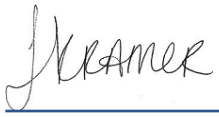
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/5/2025 10:54:08 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8044-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8044-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1 Eurofins Carlsbad

Job Narrative
890-8044-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/29/2025 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 174 (890-8044-1), CS 178 (890-8044-2), CS 179 (890-8044-3), CS 180 (890-8044-4), CS 211 (890-8044-5), CS 238 (890-8044-6), CS 181 (890-8044-7), CS 182 (890-8044-8), CS 183 (890-8044-9), CS 184 (890-8044-10), CS 185 (890-8044-11), CS 186 (890-8044-12), CS 13 (890-8044-13) and CS 210 (890-8044-14).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: CS 13 (890-8044-13). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-109134 and analytical batch 880-109141 was outside the control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109028 and analytical batch 880-109158 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 174 (890-8044-1), CS 178 (890-8044-2), CS 179 (890-8044-3), CS 180 (890-8044-4), CS 211 (890-8044-5), CS 238 (890-8044-6), CS 181 (890-8044-7), CS 182 (890-8044-8), CS 183 (890-8044-9), CS 184 (890-8044-10), CS 185 (890-8044-11), CS 186 (890-8044-12), CS 13 (890-8044-13), CS 210 (890-8044-14), (LCS 880-109028/2-A), (LCSD 880-109028/3-A), (890-8043-A-4-A), (890-8043-A-4-B MS) and (890-8043-A-4-C 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.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 174

Date Collected: 04/29/25 09:30
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 12:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/01/25 10:49	05/02/25 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/02/25 12:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/01/25 19:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 19:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 19:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 19:59*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 19:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		10.1		mg/Kg			05/01/25 15:09	1

Client Sample ID: CS 178

Date Collected: 04/29/25 09:38
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 12:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/01/25 10:49	05/02/25 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:32*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 178

Date Collected: 04/29/25 09:38
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:32*	*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			05/02/25 12:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/01/25 20:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/30/25 08:28	05/01/25 20:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/30/25 08:28	05/01/25 20:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/30/25 08:28	05/01/25 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:15*	*1*
o-Terphenyl	*153*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**648**		9.96		mg/Kg			05/01/25 15:16	1

Client Sample ID: CS 179

Date Collected: 04/29/25 09:32
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/01/25 10:49	05/02/25 12:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/01/25 10:49	05/02/25 12:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/01/25 10:49	05/02/25 12:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/01/25 10:49	05/02/25 12:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/01/25 10:49	05/02/25 12:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/01/25 10:49	05/02/25 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:53*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/01/25 10:49*	*05/02/25 12:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/02/25 12:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/01/25 20:32	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 179

Date Collected: 04/29/25 09:32
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 20:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 20:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*164*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:32*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**350**		10.0		mg/Kg			05/01/25 15:23	1

Client Sample ID: CS 180

Date Collected: 04/29/25 09:36
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 13:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/01/25 10:49	05/02/25 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:13*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/02/25 13:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/01/25 20:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 20:48	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 20:48	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:48*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 20:48*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 180

Lab Sample ID: 890-8044-4
Matrix: Solid
Date Collected: 04/29/25 09:36
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	335		9.98		mg/Kg			05/01/25 15:30	1

Client Sample ID: CS 211

Lab Sample ID: 890-8044-5
Matrix: Solid
Date Collected: 04/29/25 10:03
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/01/25 10:49	05/02/25 13:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/01/25 10:49	05/02/25 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:34*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:34*	*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			05/02/25 13:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/01/25 21:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 21:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 21:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*168*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:04*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		9.94		mg/Kg			05/01/25 15:45	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 238

Date Collected: 04/29/25 10:12
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/01/25 10:49	05/02/25 13:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/01/25 10:49	05/02/25 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:54*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/01/25 10:49*	*05/02/25 13:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/02/25 13:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/01/25 21:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/30/25 08:28	05/01/25 21:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/30/25 08:28	05/01/25 21:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/30/25 08:28	05/01/25 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:20*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		10.1		mg/Kg			05/01/25 15:52	1

Client Sample ID: CS 181

Date Collected: 04/29/25 09:47
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 18:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 08:11	05/01/25 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/01/25 08:11*	*05/01/25 18:58*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 181

Lab Sample ID: 890-8044-7
Matrix: Solid
Date Collected: 04/29/25 09:47
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/01/25 08:11*	*05/01/25 18:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/01/25 18:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/01/25 21:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/01/25 21:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/01/25 21:37	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/01/25 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*168*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:37*	*1*
o-Terphenyl	*153*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 21:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		9.98	mg/Kg			05/01/25 16:13	1

Client Sample ID: CS 182

Lab Sample ID: 890-8044-8
Matrix: Solid
Date Collected: 04/29/25 09:42
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/01/25 08:11	05/01/25 19:18	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/01/25 08:11	05/01/25 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/01/25 08:11*	*05/01/25 19:18*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/01/25 08:11*	*05/01/25 19:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/01/25 19:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/01/25 22:09	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 182

Lab Sample ID: 890-8044-8
Matrix: Solid
Date Collected: 04/29/25 09:42
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 22:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 22:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*161*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:09*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**343**		10.0		mg/Kg			05/01/25 16:20	1

Client Sample ID: CS 183

Lab Sample ID: 890-8044-9
Matrix: Solid
Date Collected: 04/29/25 09:45
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/01/25 10:49	05/02/25 17:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/01/25 10:49	05/02/25 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/01/25 10:49*	*05/02/25 17:31*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/01/25 10:49*	*05/02/25 17:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/02/25 17:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/01/25 22:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 22:25	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 22:25	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:25*	*1*
o-Terphenyl	*149*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 183

Lab Sample ID: 890-8044-9
Matrix: Solid
Date Collected: 04/29/25 09:45
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.0		9.98		mg/Kg			05/01/25 16:41	1

Client Sample ID: CS 184

Lab Sample ID: 890-8044-10
Matrix: Solid
Date Collected: 04/29/25 09:50
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
Ethylbenzene	0.00258		0.00201		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/01/25 17:00	05/01/25 18:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/01/25 17:00	05/01/25 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:01*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/01/25 18:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/01/25 22:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:41*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	474		10.1		mg/Kg			05/01/25 16:48	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 185

Date Collected: 04/29/25 09:52
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00200**		0.00199		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
o-Xylene	**0.00385**		0.00199		mg/Kg		05/01/25 17:00	05/01/25 18:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/01/25 17:00	05/01/25 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:21*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00585**		0.00398		mg/Kg			05/01/25 18:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/01/25 22:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		04/30/25 08:28	05/01/25 22:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:57*	*1*
o-Terphenyl	*151*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 22:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		10.0		mg/Kg			05/01/25 16:55	1

Client Sample ID: CS 186

Date Collected: 04/29/25 09:54
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
Ethylbenzene	**0.00248**		0.00198		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
o-Xylene	**0.00422**		0.00198		mg/Kg		05/01/25 17:00	05/01/25 18:42	1
Xylenes, Total	**0.00422**		0.00397		mg/Kg		05/01/25 17:00	05/01/25 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:42*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 186

Date Collected: 04/29/25 09:54
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-12

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*05/01/25 17:00*	*05/01/25 18:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00670**		0.00397		mg/Kg			05/01/25 18:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/01/25 23:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:13	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:13	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*165*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:13*	*1*
o-Terphenyl	*155*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**674**		10.1		mg/Kg			05/01/25 17:02	1

Client Sample ID: CS 13

Date Collected: 04/29/25 12:56
Date Received: 04/29/25 15:35
Sample Depth: 1

Lab Sample ID: 890-8044-13

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
Toluene	**0.00235**		0.00200		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 17:00	05/01/25 19:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 17:00	05/01/25 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/01/25 17:00*	*05/01/25 19:03*	*1*
1,4-Difluorobenzene (Surr)	*64*	*S1-*	*70 - 130*	*05/01/25 17:00*	*05/01/25 19:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/01/25 19:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/01/25 23:30	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 13

Lab Sample ID: 890-8044-13
Matrix: Solid
Date Collected: 04/29/25 12:56
Date Received: 04/29/25 15:35
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/01/25 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*171*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:30*	*1*
o-Terphenyl	*158*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**649**		10.0		mg/Kg			05/01/25 17:09	1

Client Sample ID: CS 210

Lab Sample ID: 890-8044-14
Matrix: Solid
Date Collected: 04/29/25 13:04
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
Ethylbenzene	**0.00236**		0.00199		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
o-Xylene	**0.00261**		0.00199		mg/Kg		05/01/25 17:00	05/01/25 19:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/01/25 17:00	05/01/25 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*05/01/25 17:00*	*05/01/25 19:23*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/01/25 17:00*	*05/01/25 19:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00497**		0.00398		mg/Kg			05/01/25 19:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/01/25 23:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 23:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 23:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 23:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*172*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:46*	*1*
o-Terphenyl	*159*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 23:46*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 210
Date Collected: 04/29/25 13:04
Date Received: 04/29/25 15:35
Sample Depth: 0.5

Lab Sample ID: 890-8044-14
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	139		9.90		mg/Kg			05/01/25 17:16	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-56959-A-26-A MB	Method Blank	106	99
890-8044-1	CS 174	98	101
890-8044-1 MS	CS 174	97	104
890-8044-1 MSD	CS 174	95	102
890-8044-2	CS 178	110	102
890-8044-3	CS 179	104	98
890-8044-4	CS 180	99	103
890-8044-5	CS 211	102	100
890-8044-6	CS 238	103	100
890-8044-7	CS 181	108	94
890-8044-8	CS 182	100	88
890-8044-9	CS 183	104	102
890-8044-10	CS 184	88	70
890-8044-11	CS 185	108	78
890-8044-12	CS 186	101	72
890-8044-13	CS 13	93	64 S1-
890-8044-14	CS 210	105	84
890-8052-A-1-G MS	Matrix Spike	105	98
890-8052-A-1-H MSD	Matrix Spike Duplicate	99	106
890-8052-A-6-C MS	Matrix Spike	100	90
890-8052-A-6-D MSD	Matrix Spike Duplicate	99	95
LCS 880-109134/1-A	Lab Control Sample	89	95
LCS 880-109135/1-A	Lab Control Sample	101	89
LCS 880-109180/1-A	Lab Control Sample	101	100
LCSD 880-109134/2-A	Lab Control Sample Dup	120	98
LCSD 880-109135/2-A	Lab Control Sample Dup	101	93
LCSD 880-109180/2-A	Lab Control Sample Dup	103	98
MB 880-109134/5-A	Method Blank	97	60 S1-
MB 880-109135/5-A	Method Blank	89	82
MB 880-109180/5-A	Method Blank	98	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8043-A-4-B MS	Matrix Spike	144 S1+	145 S1+
890-8043-A-4-C MSD	Matrix Spike Duplicate	147 S1+	147 S1+
890-8044-1	CS 174	164 S1+	152 S1+
890-8044-2	CS 178	164 S1+	153 S1+
890-8044-3	CS 179	164 S1+	152 S1+
890-8044-4	CS 180	163 S1+	152 S1+
890-8044-5	CS 211	168 S1+	155 S1+
890-8044-6	CS 238	166 S1+	152 S1+
890-8044-7	CS 181	168 S1+	153 S1+

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-8044-8	CS 182	161 S1+	151 S1+										
890-8044-9	CS 183	163 S1+	149 S1+										
890-8044-10	CS 184	163 S1+	152 S1+										
890-8044-11	CS 185	163 S1+	151 S1+										
890-8044-12	CS 186	165 S1+	155 S1+										
890-8044-13	CS 13	171 S1+	158 S1+										
890-8044-14	CS 210	172 S1+	159 S1+										
LCS 880-109028/2-A	Lab Control Sample	173 S1+	150 S1+										
LCSD 880-109028/3-A	Lab Control Sample Dup	169 S1+	144 S1+										
MB 880-109028/1-A	Method Blank	145 S1+	134 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109134/5-A
Matrix: Solid
Analysis Batch: 109141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109134

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:09	05/01/25 11:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 08:09	05/01/25 11:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/01/25 08:09*	*05/01/25 11:18*	*1*
1,4-Difluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*05/01/25 08:09*	*05/01/25 11:18*	*1*

Lab Sample ID: LCS 880-109134/1-A
Matrix: Solid
Analysis Batch: 109141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109134

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09660		mg/Kg		97	70 - 130		
Toluene			0.100	0.08999		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09735		mg/Kg		97	70 - 130		
m-Xylene & p-Xylene			0.200	0.1818		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.09353		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-109134/2-A
Matrix: Solid
Analysis Batch: 109141

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109134

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09715		mg/Kg		97	70 - 130	1	35
Toluene			0.100	0.1096		mg/Kg		110	70 - 130	20	35
Ethylbenzene			0.100	0.1203		mg/Kg		120	70 - 130	21	35
m-Xylene & p-Xylene			0.200	0.2446		mg/Kg		122	70 - 130	29	35
o-Xylene			0.100	0.1206		mg/Kg		121	70 - 130	25	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-8052-A-1-G MS
Matrix: Solid
Analysis Batch: 109141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109134

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1030		mg/Kg		103	70 - 130		
Toluene	<0.00200	U	0.100	0.09565		mg/Kg		96	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8052-A-1-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109141 — **Prep Batch: 109134**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1050		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1991		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.100	0.1003		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-8052-A-1-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109141 — **Prep Batch: 109134**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1050		mg/Kg		105	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09559		mg/Kg		96	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.09891		mg/Kg		99	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1865		mg/Kg		93	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.09212		mg/Kg		92	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-109135/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109139 — **Prep Batch: 109135**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 08:11	05/01/25 11:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 08:11	05/01/25 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/01/25 08:11*	*05/01/25 11:15*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*05/01/25 08:11*	*05/01/25 11:15*	*1*

Lab Sample ID: LCS 880-109135/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109139 — **Prep Batch: 109135**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07379		mg/Kg		74	70 - 130
Toluene	0.100	0.07156		mg/Kg		72	70 - 130
Ethylbenzene	0.100	0.07525		mg/Kg		75	70 - 130
m-Xylene & p-Xylene	0.200	0.1588		mg/Kg		79	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-109135/1-A
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109135

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.07608		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-109135/2-A
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109135

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07664		mg/Kg		77	70 - 130	4	35
Toluene			0.100	0.07569		mg/Kg		76	70 - 130	6	35
Ethylbenzene			0.100	0.07767		mg/Kg		78	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1611		mg/Kg		81	70 - 130	1	35
o-Xylene			0.100	0.07694		mg/Kg		77	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 890-8052-A-6-C MS
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08030		mg/Kg		80	70 - 130		
Toluene	<0.00200	U	0.100	0.08639		mg/Kg		86	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08936		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1841		mg/Kg		92	70 - 130		
o-Xylene	<0.00200	U	0.100	0.08608		mg/Kg		86	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-8052-A-6-D MSD
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08546		mg/Kg		85	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.08924		mg/Kg		89	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09264		mg/Kg		93	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1913		mg/Kg		96	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.08898		mg/Kg		89	70 - 130	3	35

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8052-A-6-D MSD
Matrix: Solid
Analysis Batch: 109139

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109135

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-56959-A-26-A MB
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109180

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/25 10:49	05/02/25 16:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/25 10:49	05/02/25 16:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/02/25 10:49	05/02/25 16:50	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/02/25 10:49	05/02/25 16:50	1

Lab Sample ID: MB 880-109180/5-A
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109180

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/01/25 10:49	05/02/25 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/01/25 10:49	05/02/25 11:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/01/25 10:49	05/02/25 11:50	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/01/25 10:49	05/02/25 11:50	1

Lab Sample ID: LCS 880-109180/1-A
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109180

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09015		mg/Kg		90	70 - 130		
Toluene			0.100	0.08174		mg/Kg		82	70 - 130		
Ethylbenzene			0.100	0.08904		mg/Kg		89	70 - 130		
m-Xylene & p-Xylene			0.200	0.1795		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.09008		mg/Kg		90	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-109180/1-A
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109180

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-109180/2-A
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09346		mg/Kg		93	70 - 130	4	35
Toluene			0.100	0.08333		mg/Kg		83	70 - 130	2	35
Ethylbenzene			0.100	0.09024		mg/Kg		90	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1799		mg/Kg		90	70 - 130	0	35
o-Xylene			0.100	0.08974		mg/Kg		90	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 890-8044-1 MS
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: CS 174
Prep Type: Total/NA
Prep Batch: 109180

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1023		mg/Kg		102	70 - 130
Toluene	<0.00200	U	0.100	0.08881		mg/Kg		89	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.09237		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1816		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.100	0.09023		mg/Kg		90	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-8044-1 MSD
Matrix: Solid
Analysis Batch: 109262

Client Sample ID: CS 174
Prep Type: Total/NA
Prep Batch: 109180

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09942		mg/Kg		99	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08531		mg/Kg		85	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.08880		mg/Kg		89	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1732		mg/Kg		87	70 - 130	5	35
o-Xylene	<0.00200	U	0.100	0.08551		mg/Kg		86	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109028/1-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109028

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 17:45*	*1*
o-Terphenyl	*134*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/01/25 17:45*	*1*

Lab Sample ID: LCS 880-109028/2-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109028

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1010		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*173*	*S1+*	*70 - 130*
o-Terphenyl	*150*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-109028/3-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109028

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1014		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	981.2		mg/Kg		98	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*169*	*S1+*	*70 - 130*
o-Terphenyl	*144*	*S1+*	*70 - 130*

Lab Sample ID: 890-8043-A-4-B MS
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1231		mg/Kg		123	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1241		mg/Kg		124	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8043-A-4-B MS
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109028

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	144	S1+	70 - 130
o-Terphenyl	145	S1+	70 - 130

Lab Sample ID: 890-8043-A-4-C MSD
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1259		mg/Kg		126	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1271		mg/Kg		127	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	147	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109079/1-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/01/25 13:45	1

Lab Sample ID: LCS 880-109079/2-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.9		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-109079/3-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.7		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 890-8044-6 MS
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: CS 238
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	119		252	383.5		mg/Kg		105	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8044-6 MSD
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: CS 238
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	119		252	374.1		mg/Kg		101	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

GC VOA

Prep Batch: 109134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-10	CS 184	Total/NA	Solid	5035	
890-8044-11	CS 185	Total/NA	Solid	5035	
890-8044-12	CS 186	Total/NA	Solid	5035	
890-8044-13	CS 13	Total/NA	Solid	5035	
890-8044-14	CS 210	Total/NA	Solid	5035	
MB 880-109134/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109134/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109134/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8052-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
890-8052-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 109135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-7	CS 181	Total/NA	Solid	5035	
890-8044-8	CS 182	Total/NA	Solid	5035	
MB 880-109135/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109135/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109135/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8052-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8052-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-7	CS 181	Total/NA	Solid	8021B	109135
890-8044-8	CS 182	Total/NA	Solid	8021B	109135
MB 880-109135/5-A	Method Blank	Total/NA	Solid	8021B	109135
LCS 880-109135/1-A	Lab Control Sample	Total/NA	Solid	8021B	109135
LCSD 880-109135/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109135
890-8052-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	109135
890-8052-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109135

Analysis Batch: 109141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-10	CS 184	Total/NA	Solid	8021B	109134
890-8044-11	CS 185	Total/NA	Solid	8021B	109134
890-8044-12	CS 186	Total/NA	Solid	8021B	109134
890-8044-13	CS 13	Total/NA	Solid	8021B	109134
890-8044-14	CS 210	Total/NA	Solid	8021B	109134
MB 880-109134/5-A	Method Blank	Total/NA	Solid	8021B	109134
LCS 880-109134/1-A	Lab Control Sample	Total/NA	Solid	8021B	109134
LCSD 880-109134/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109134
890-8052-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	109134
890-8052-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109134

Prep Batch: 109180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	5035	
890-8044-2	CS 178	Total/NA	Solid	5035	
890-8044-3	CS 179	Total/NA	Solid	5035	
890-8044-4	CS 180	Total/NA	Solid	5035	
890-8044-5	CS 211	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

GC VOA (Continued)

Prep Batch: 109180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-6	CS 238	Total/NA	Solid	5035	
890-8044-9	CS 183	Total/NA	Solid	5035	
880-56959-A-26-A MB	Method Blank	Total/NA	Solid	5035	
MB 880-109180/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109180/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109180/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8044-1 MS	CS 174	Total/NA	Solid	5035	
890-8044-1 MSD	CS 174	Total/NA	Solid	5035	

Analysis Batch: 109262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	8021B	109180
890-8044-2	CS 178	Total/NA	Solid	8021B	109180
890-8044-3	CS 179	Total/NA	Solid	8021B	109180
890-8044-4	CS 180	Total/NA	Solid	8021B	109180
890-8044-5	CS 211	Total/NA	Solid	8021B	109180
890-8044-6	CS 238	Total/NA	Solid	8021B	109180
890-8044-9	CS 183	Total/NA	Solid	8021B	109180
880-56959-A-26-A MB	Method Blank	Total/NA	Solid	8021B	109180
MB 880-109180/5-A	Method Blank	Total/NA	Solid	8021B	109180
LCS 880-109180/1-A	Lab Control Sample	Total/NA	Solid	8021B	109180
LCSD 880-109180/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109180
890-8044-1 MS	CS 174	Total/NA	Solid	8021B	109180
890-8044-1 MSD	CS 174	Total/NA	Solid	8021B	109180

Analysis Batch: 109333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	Total BTEX	
890-8044-2	CS 178	Total/NA	Solid	Total BTEX	
890-8044-3	CS 179	Total/NA	Solid	Total BTEX	
890-8044-4	CS 180	Total/NA	Solid	Total BTEX	
890-8044-5	CS 211	Total/NA	Solid	Total BTEX	
890-8044-6	CS 238	Total/NA	Solid	Total BTEX	
890-8044-7	CS 181	Total/NA	Solid	Total BTEX	
890-8044-8	CS 182	Total/NA	Solid	Total BTEX	
890-8044-9	CS 183	Total/NA	Solid	Total BTEX	
890-8044-10	CS 184	Total/NA	Solid	Total BTEX	
890-8044-11	CS 185	Total/NA	Solid	Total BTEX	
890-8044-12	CS 186	Total/NA	Solid	Total BTEX	
890-8044-13	CS 13	Total/NA	Solid	Total BTEX	
890-8044-14	CS 210	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	8015NM Prep	
890-8044-2	CS 178	Total/NA	Solid	8015NM Prep	
890-8044-3	CS 179	Total/NA	Solid	8015NM Prep	
890-8044-4	CS 180	Total/NA	Solid	8015NM Prep	
890-8044-5	CS 211	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

GC Semi VOA (Continued)

Prep Batch: 109028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-6	CS 238	Total/NA	Solid	8015NM Prep	
890-8044-7	CS 181	Total/NA	Solid	8015NM Prep	
890-8044-8	CS 182	Total/NA	Solid	8015NM Prep	
890-8044-9	CS 183	Total/NA	Solid	8015NM Prep	
890-8044-10	CS 184	Total/NA	Solid	8015NM Prep	
890-8044-11	CS 185	Total/NA	Solid	8015NM Prep	
890-8044-12	CS 186	Total/NA	Solid	8015NM Prep	
890-8044-13	CS 13	Total/NA	Solid	8015NM Prep	
890-8044-14	CS 210	Total/NA	Solid	8015NM Prep	
MB 880-109028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8043-A-4-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8043-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	8015B NM	109028
890-8044-2	CS 178	Total/NA	Solid	8015B NM	109028
890-8044-3	CS 179	Total/NA	Solid	8015B NM	109028
890-8044-4	CS 180	Total/NA	Solid	8015B NM	109028
890-8044-5	CS 211	Total/NA	Solid	8015B NM	109028
890-8044-6	CS 238	Total/NA	Solid	8015B NM	109028
890-8044-7	CS 181	Total/NA	Solid	8015B NM	109028
890-8044-8	CS 182	Total/NA	Solid	8015B NM	109028
890-8044-9	CS 183	Total/NA	Solid	8015B NM	109028
890-8044-10	CS 184	Total/NA	Solid	8015B NM	109028
890-8044-11	CS 185	Total/NA	Solid	8015B NM	109028
890-8044-12	CS 186	Total/NA	Solid	8015B NM	109028
890-8044-13	CS 13	Total/NA	Solid	8015B NM	109028
890-8044-14	CS 210	Total/NA	Solid	8015B NM	109028
MB 880-109028/1-A	Method Blank	Total/NA	Solid	8015B NM	109028
LCS 880-109028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109028
LCSD 880-109028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109028
890-8043-A-4-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109028
890-8043-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109028

Analysis Batch: 109286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Total/NA	Solid	8015 NM	
890-8044-2	CS 178	Total/NA	Solid	8015 NM	
890-8044-3	CS 179	Total/NA	Solid	8015 NM	
890-8044-4	CS 180	Total/NA	Solid	8015 NM	
890-8044-5	CS 211	Total/NA	Solid	8015 NM	
890-8044-6	CS 238	Total/NA	Solid	8015 NM	
890-8044-7	CS 181	Total/NA	Solid	8015 NM	
890-8044-8	CS 182	Total/NA	Solid	8015 NM	
890-8044-9	CS 183	Total/NA	Solid	8015 NM	
890-8044-10	CS 184	Total/NA	Solid	8015 NM	
890-8044-11	CS 185	Total/NA	Solid	8015 NM	
890-8044-12	CS 186	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

GC Semi VOA (Continued)

Analysis Batch: 109286 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-13	CS 13	Total/NA	Solid	8015 NM	
890-8044-14	CS 210	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Soluble	Solid	DI Leach	
890-8044-2	CS 178	Soluble	Solid	DI Leach	
890-8044-3	CS 179	Soluble	Solid	DI Leach	
890-8044-4	CS 180	Soluble	Solid	DI Leach	
890-8044-5	CS 211	Soluble	Solid	DI Leach	
890-8044-6	CS 238	Soluble	Solid	DI Leach	
890-8044-7	CS 181	Soluble	Solid	DI Leach	
890-8044-8	CS 182	Soluble	Solid	DI Leach	
890-8044-9	CS 183	Soluble	Solid	DI Leach	
890-8044-10	CS 184	Soluble	Solid	DI Leach	
890-8044-11	CS 185	Soluble	Solid	DI Leach	
890-8044-12	CS 186	Soluble	Solid	DI Leach	
890-8044-13	CS 13	Soluble	Solid	DI Leach	
890-8044-14	CS 210	Soluble	Solid	DI Leach	
MB 880-109079/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109079/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109079/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8044-6 MS	CS 238	Soluble	Solid	DI Leach	
890-8044-6 MSD	CS 238	Soluble	Solid	DI Leach	

Analysis Batch: 109101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8044-1	CS 174	Soluble	Solid	300.0	109079
890-8044-2	CS 178	Soluble	Solid	300.0	109079
890-8044-3	CS 179	Soluble	Solid	300.0	109079
890-8044-4	CS 180	Soluble	Solid	300.0	109079
890-8044-5	CS 211	Soluble	Solid	300.0	109079
890-8044-6	CS 238	Soluble	Solid	300.0	109079
890-8044-7	CS 181	Soluble	Solid	300.0	109079
890-8044-8	CS 182	Soluble	Solid	300.0	109079
890-8044-9	CS 183	Soluble	Solid	300.0	109079
890-8044-10	CS 184	Soluble	Solid	300.0	109079
890-8044-11	CS 185	Soluble	Solid	300.0	109079
890-8044-12	CS 186	Soluble	Solid	300.0	109079
890-8044-13	CS 13	Soluble	Solid	300.0	109079
890-8044-14	CS 210	Soluble	Solid	300.0	109079
MB 880-109079/1-A	Method Blank	Soluble	Solid	300.0	109079
LCS 880-109079/2-A	Lab Control Sample	Soluble	Solid	300.0	109079
LCSD 880-109079/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109079
890-8044-6 MS	CS 238	Soluble	Solid	300.0	109079
890-8044-6 MSD	CS 238	Soluble	Solid	300.0	109079

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 174

Date Collected: 04/29/25 09:30
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 12:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 12:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 19:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 19:59	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:09	CH	EET MID

Client Sample ID: CS 178

Date Collected: 04/29/25 09:38
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 12:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 12:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 20:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 20:15	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:16	CH	EET MID

Client Sample ID: CS 179

Date Collected: 04/29/25 09:32
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 12:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 12:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 20:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 20:32	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:23	CH	EET MID

Client Sample ID: CS 180

Date Collected: 04/29/25 09:36
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 13:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 13:13	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 180

Date Collected: 04/29/25 09:36
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109286	05/01/25 20:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 20:48	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:30	CH	EET MID

Client Sample ID: CS 211

Date Collected: 04/29/25 10:03
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 13:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 21:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 21:04	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:45	CH	EET MID

Client Sample ID: CS 238

Date Collected: 04/29/25 10:12
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 13:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 13:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 21:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 21:20	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 15:52	CH	EET MID

Client Sample ID: CS 181

Date Collected: 04/29/25 09:47
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109135	05/01/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109139	05/01/25 18:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 18:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 21:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 21:37	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 181

Date Collected: 04/29/25 09:47
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:13	CH	EET MID

Client Sample ID: CS 182

Date Collected: 04/29/25 09:42
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109135	05/01/25 08:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109139	05/01/25 19:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 19:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 22:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 22:09	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:20	CH	EET MID

Client Sample ID: CS 183

Date Collected: 04/29/25 09:45
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109180	05/01/25 10:49	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109262	05/02/25 17:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/02/25 17:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 22:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 22:25	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:41	CH	EET MID

Client Sample ID: CS 184

Date Collected: 04/29/25 09:50
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 18:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 18:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 22:41	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:48	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 185

Date Collected: 04/29/25 09:52
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 18:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 18:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 22:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 22:57	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 16:55	CH	EET MID

Client Sample ID: CS 186

Date Collected: 04/29/25 09:54
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 23:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 23:13	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 17:02	CH	EET MID

Client Sample ID: CS 13

Date Collected: 04/29/25 12:56
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 19:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 19:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			109286	05/01/25 23:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 23:30	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 17:09	CH	EET MID

Client Sample ID: CS 210

Date Collected: 04/29/25 13:04
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109134	05/01/25 17:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109141	05/01/25 19:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109333	05/01/25 19:23	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Client Sample ID: CS 210

Date Collected: 04/29/25 13:04
Date Received: 04/29/25 15:35

Lab Sample ID: 890-8044-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109286	05/01/25 23:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/01/25 23:46	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 17:16	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8044-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8044-1	CS 174	Solid	04/29/25 09:30	04/29/25 15:35	0.5
890-8044-2	CS 178	Solid	04/29/25 09:38	04/29/25 15:35	0.5
890-8044-3	CS 179	Solid	04/29/25 09:32	04/29/25 15:35	0.5
890-8044-4	CS 180	Solid	04/29/25 09:36	04/29/25 15:35	0.5
890-8044-5	CS 211	Solid	04/29/25 10:03	04/29/25 15:35	0.5
890-8044-6	CS 238	Solid	04/29/25 10:12	04/29/25 15:35	0.5
890-8044-7	CS 181	Solid	04/29/25 09:47	04/29/25 15:35	0.5
890-8044-8	CS 182	Solid	04/29/25 09:42	04/29/25 15:35	0.5
890-8044-9	CS 183	Solid	04/29/25 09:45	04/29/25 15:35	0.5
890-8044-10	CS 184	Solid	04/29/25 09:50	04/29/25 15:35	0.5
890-8044-11	CS 185	Solid	04/29/25 09:52	04/29/25 15:35	0.5
890-8044-12	CS 186	Solid	04/29/25 09:54	04/29/25 15:35	0.5
890-8044-13	CS 13	Solid	04/29/25 12:56	04/29/25 15:35	1
890-8044-14	CS 210	Solid	04/29/25 13:04	04/29/25 15:35	0.5

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Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-8044 Chain of Custody

www.xenco.com Page 1

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895 Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	32.30486, -103.89709	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Uriel Santillana		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TN-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.0
Total Containers:		Corrected Temperature:	3.8

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
CS174	S	4/29/25	0930	0.5'	C	1		X	X	X			
CS 178			938										
CS 179			932										
CS 180			936										
CS 211			1003										
CS 238			1012										
CS 181			947										
CS 182			942										
CS 183			945										
CS 184	↓	↓	950	↓	↓	↓		↓	↓	↓			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7:35 4/29	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

2-2

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	32.30486, -103.89709	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Uriel Santillana		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
CS 185	S	4/29/25	0952	0.5	C	1		X	X	X	X		
CS 186			0954	0.5	C	1		X	X	X			
CS 13			1256	1'	C	1		X	X	X			
~~CS 16~~													
~~CS 33~~													
~~CS 64~~													
~~CS 194~~													
CS 210			1304	0.5	C	1		X	X	X			

Parameters

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		4/29/25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8044-1
SDG Number: 03D3836001

Login Number: 8044
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8044-1
SDG Number: 03D3836001

Login Number: 8044
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 04/30/25 08:04 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

Flatland FNR Frac line
03D3836001

JOB NUMBER

890-8046-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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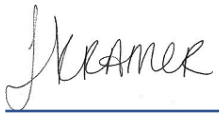
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/2/2025 12:24:09 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR Frac line

Laboratory Job ID: 890-8046-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8046-1
Project: Flatland FNR Frac line

Job ID: 890-8046-1 Eurofins Carlsbad

Job Narrative
890-8046-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/29/2025 4:22 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 5.8°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 133 (890-8046-1), CS 147 (890-8046-2), CS 148 (890-8046-3), CS 131 (890-8046-4), CS 160 (890-8046-5), CS 162 (890-8046-6), CS 163 (890-8046-7) and CS 171 (890-8046-8).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-109088 and analytical batch 880-109031 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.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109028 and analytical batch 880-109158 was outside the upper control limits.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109114 and analytical batch 880-109160 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 131 (890-8046-4), CS 160 (890-8046-5), CS 162 (890-8046-6), CS 163 (890-8046-7), CS 171 (890-8046-8), (LCS 880-109114/2-A), (LCSD 880-109114/3-A), (890-8046-A-4-D MS) and (890-8046-A-4-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 133 (890-8046-1), CS 147 (890-8046-2), CS 148 (890-8046-3), (LCS 880-109028/2-A), (LCSD 880-109028/3-A), (890-8043-A-4-A), (890-8043-A-4-B MS) and (890-8043-A-4-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-109160 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-109160/58).

Next CCV meets acceptance criteria within 20 samples and 12 hours.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 133

Lab Sample ID: 890-8046-1
Matrix: Solid
Date Collected: 04/28/25 10:41
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00938**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
Toluene	**0.00331**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
Ethylbenzene	**0.00214**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
o-Xylene	**0.00236**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 04:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		04/30/25 12:47	05/01/25 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*04/30/25 12:47*	*05/01/25 04:48*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*04/30/25 12:47*	*05/01/25 04:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0172**		0.00399		mg/Kg			05/01/25 04:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/02/25 00:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/02/25 00:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/02/25 00:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/30/25 08:28	05/02/25 00:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*163*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:03*	*1*
o-Terphenyl	*153*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**548**		10.1		mg/Kg			05/01/25 17:23	1

Client Sample ID: CS 147

Lab Sample ID: 890-8046-2
Matrix: Solid
Date Collected: 04/28/25 10:49
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00214**		0.00202		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
Toluene	**0.00400**		0.00202		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/30/25 12:47	05/01/25 05:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/30/25 12:47	05/01/25 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 147

Date Collected: 04/28/25 10:49
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Lab Sample ID: 890-8046-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00614**		0.00404	mg/Kg			05/01/25 05:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/02/25 00:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/02/25 00:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/02/25 00:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/30/25 08:28	05/02/25 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*166*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:18*	*1*
o-Terphenyl	*154*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**506**		9.94	mg/Kg			04/30/25 23:38	1

Client Sample ID: CS 148

Date Collected: 04/28/25 10:52
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Lab Sample ID: 890-8046-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
o-Xylene	**0.00262**		0.00201	mg/Kg		04/30/25 12:47	05/01/25 05:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/30/25 12:47	05/01/25 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:28*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/01/25 05:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/02/25 00:35	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 148

Lab Sample ID: 890-8046-3
Matrix: Solid
Date Collected: 04/28/25 10:52
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/02/25 00:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/02/25 00:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/02/25 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*168*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:35*	*1*
o-Terphenyl	*157*	*S1+*	*70 - 130*	*04/30/25 08:28*	*05/02/25 00:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**450**		9.96		mg/Kg			04/30/25 23:45	1

Client Sample ID: CS 131

Lab Sample ID: 890-8046-4
Matrix: Solid
Date Collected: 04/28/25 10:39
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
o-Xylene	**0.00266**		0.00199		mg/Kg		04/30/25 12:47	05/01/25 05:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/30/25 12:47	05/01/25 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:49*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*04/30/25 12:47*	*05/01/25 05:49*	*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			05/01/25 05:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/01/25 18:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		04/30/25 15:20	05/01/25 18:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		04/30/25 15:20	05/01/25 18:36	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		04/30/25 15:20	05/01/25 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*188*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 18:36*	*1*
o-Terphenyl	*182*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 18:36*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 131

Lab Sample ID: 890-8046-4
Matrix: Solid
Date Collected: 04/28/25 10:39
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	116		9.92		mg/Kg			04/30/25 23:53	1

Client Sample ID: CS 160

Lab Sample ID: 890-8046-5
Matrix: Solid
Date Collected: 04/28/25 13:14
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
Toluene	<0.00198	U	0.00198		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		04/30/25 12:47	05/01/25 06:09	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		04/30/25 12:47	05/01/25 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:09*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/01/25 06:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<3.57	U	3.57		mg/Kg			05/01/25 19:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<3.57	U	3.57		mg/Kg		04/30/25 15:20	05/01/25 19:26	1
Diesel Range Organics (Over C10-C28)	<3.57	U	3.57		mg/Kg		04/30/25 15:20	05/01/25 19:26	1
Oil Range Organics (Over C28-C36)	<3.57	U	3.57		mg/Kg		04/30/25 15:20	05/01/25 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*185*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:26*	*1*
o-Terphenyl	*179*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	415		10.0		mg/Kg			05/01/25 00:00	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 162

Lab Sample ID: 890-8046-6
Matrix: Solid
Date Collected: 04/28/25 13:16
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
o-Xylene	**0.00242**		0.00200		mg/Kg		04/30/25 12:47	05/01/25 06:30	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/30/25 12:47	05/01/25 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:30*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/01/25 06:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/01/25 19:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/30/25 15:20	05/01/25 19:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/30/25 15:20	05/01/25 19:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/30/25 15:20	05/01/25 19:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:42*	*1*
o-Terphenyl	*178*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		10.1		mg/Kg			05/01/25 00:21	1

Client Sample ID: CS 163

Lab Sample ID: 890-8046-7
Matrix: Solid
Date Collected: 04/28/25 13:17
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
o-Xylene	**0.00199**		0.00199		mg/Kg		04/30/25 12:47	05/01/25 06:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/30/25 12:47	05/01/25 06:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:50*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 163

Lab Sample ID: 890-8046-7
Matrix: Solid
Date Collected: 04/28/25 13:17
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*04/30/25 12:47*	*05/01/25 06:50*	*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			05/01/25 06:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			05/01/25 19:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		04/30/25 15:20	05/01/25 19:59	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		04/30/25 15:20	05/01/25 19:59	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		04/30/25 15:20	05/01/25 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:59*	*1*
o-Terphenyl	*180*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 19:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**66.6**		10.1	mg/Kg			05/01/25 00:28	1

Client Sample ID: CS 171

Lab Sample ID: 890-8046-8
Matrix: Solid
Date Collected: 04/28/25 13:20
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/30/25 08:59	04/30/25 19:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/30/25 08:59	04/30/25 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*04/30/25 08:59*	*04/30/25 19:53*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*04/30/25 08:59*	*04/30/25 19:53*	*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			04/30/25 19:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			05/01/25 20:15	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 171

Date Collected: 04/28/25 13:20
Date Received: 04/29/25 16:22
Sample Depth: 0.5

Lab Sample ID: 890-8046-8

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		04/30/25 15:20	05/01/25 20:15	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		04/30/25 15:20	05/01/25 20:15	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		04/30/25 15:20	05/01/25 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*183*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 20:15*	*1*
o-Terphenyl	*180*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 20:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**527**		9.94		mg/Kg			05/01/25 00:50	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57498-A-1-B MS	Matrix Spike	108	97
880-57498-A-1-C MSD	Matrix Spike Duplicate	108	91
890-8045-A-6-C MS	Matrix Spike	116	87
890-8045-A-6-D MSD	Matrix Spike Duplicate	107	87
890-8046-1	CS 133	96	82
890-8046-2	CS 147	87	76
890-8046-3	CS 148	98	83
890-8046-4	CS 131	107	86
890-8046-5	CS 160	95	74
890-8046-6	CS 162	104	85
890-8046-7	CS 163	92	75
890-8046-8	CS 171	106	78
LCS 880-109038/1-A	Lab Control Sample	105	100
LCS 880-109088/1-A	Lab Control Sample	92	96
LCSD 880-109038/2-A	Lab Control Sample Dup	106	95
LCSD 880-109088/2-A	Lab Control Sample Dup	99	97
MB 880-109038/5-A	Method Blank	97	74
MB 880-109088/5-A	Method Blank	103	70

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8043-A-4-B MS	Matrix Spike	144 S1+	145 S1+
890-8043-A-4-C MSD	Matrix Spike Duplicate	147 S1+	147 S1+
890-8046-1	CS 133	163 S1+	153 S1+
890-8046-2	CS 147	166 S1+	154 S1+
890-8046-3	CS 148	168 S1+	157 S1+
890-8046-4	CS 131	188 S1+	182 S1+
890-8046-4 MS	CS 131	165 S1+	172 S1+
890-8046-4 MSD	CS 131	191 S1+	170 S1+
890-8046-5	CS 160	185 S1+	179 S1+
890-8046-6	CS 162	184 S1+	178 S1+
890-8046-7	CS 163	184 S1+	180 S1+
890-8046-8	CS 171	183 S1+	180 S1+
LCS 880-109028/2-A	Lab Control Sample	173 S1+	150 S1+
LCS 880-109114/2-A	Lab Control Sample	145 S1+	150 S1+
LCSD 880-109028/3-A	Lab Control Sample Dup	169 S1+	144 S1+
LCSD 880-109114/3-A	Lab Control Sample Dup	168 S1+	150 S1+
MB 880-109028/1-A	Method Blank	145 S1+	134 S1+
MB 880-109114/1-A	Method Blank	145 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109038/5-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109038

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/30/25 08:59	04/30/25 11:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/30/25 08:59	04/30/25 11:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*04/30/25 08:59*	*04/30/25 11:48*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*04/30/25 08:59*	*04/30/25 11:48*	*1*

Lab Sample ID: LCS 880-109038/1-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109038

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07624		mg/Kg		76	70 - 130		
Toluene			0.100	0.07255		mg/Kg		73	70 - 130		
Ethylbenzene			0.100	0.08029		mg/Kg		80	70 - 130		
m-Xylene & p-Xylene			0.200	0.1610		mg/Kg		81	70 - 130		
o-Xylene			0.100	0.07591		mg/Kg		76	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-109038/2-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109038

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07300		mg/Kg		73	70 - 130	4	35
Toluene			0.100	0.06957		mg/Kg		70	70 - 130	4	35
Ethylbenzene			0.100	0.07750		mg/Kg		77	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1589		mg/Kg		79	70 - 130	1	35
o-Xylene			0.100	0.07633		mg/Kg		76	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-8045-A-6-C MS
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109038

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08344		mg/Kg		83	70 - 130		
Toluene	<0.00200	U	0.100	0.09413		mg/Kg		94	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8045-A-6-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109031 — **Prep Batch: 109038**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1044		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2047		mg/Kg		102	70 - 130
o-Xylene	0.00349		0.100	0.1037		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-8045-A-6-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109031 — **Prep Batch: 109038**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08613		mg/Kg		86	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.1018		mg/Kg		102	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.100	0.1098		mg/Kg		110	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2118		mg/Kg		106	70 - 130	3	35
o-Xylene	0.00349		0.100	0.1068		mg/Kg		103	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: MB 880-109088/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109031 — **Prep Batch: 109088**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	04/30/25 22:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	04/30/25 22:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	04/30/25 22:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/30/25 12:47	04/30/25 22:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/30/25 12:47	04/30/25 22:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/30/25 12:47	04/30/25 22:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*04/30/25 12:47*	*04/30/25 22:46*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*04/30/25 12:47*	*04/30/25 22:46*	*1*

Lab Sample ID: LCS 880-109088/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109031 — **Prep Batch: 109088**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09795		mg/Kg		98	70 - 130
Toluene	0.100	0.09233		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09663		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1832		mg/Kg		92	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-109088/1-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109088

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09293		mg/Kg		93	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-109088/2-A
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09624		mg/Kg		96	70 - 130	2	35
Toluene			0.100	0.09276		mg/Kg		93	70 - 130	0	35
Ethylbenzene			0.100	0.09877		mg/Kg		99	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.1892		mg/Kg		95	70 - 130	3	35
o-Xylene			0.100	0.09572		mg/Kg		96	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-57498-A-1-B MS
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08409		mg/Kg		84	70 - 130		
Toluene	<0.00200	U	0.100	0.08530		mg/Kg		85	70 - 130		
Ethylbenzene	0.00331		0.100	0.08756		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1762		mg/Kg		88	70 - 130		
o-Xylene	<0.00200	U	0.100	0.08586		mg/Kg		84	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-57498-A-1-C MSD
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07125		mg/Kg		71	70 - 130	17	35
Toluene	<0.00200	U	0.100	0.07987		mg/Kg		80	70 - 130	7	35
Ethylbenzene	0.00331		0.100	0.08980		mg/Kg		86	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1799		mg/Kg		90	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.08349		mg/Kg		82	70 - 130	3	35

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-57498-A-1-C MSD
Matrix: Solid
Analysis Batch: 109031

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109088

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109028/1-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109028

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/30/25 08:28	05/01/25 17:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	145	S1+	70 - 130	04/30/25 08:28	05/01/25 17:45	1
o-Terphenyl	134	S1+	70 - 130	04/30/25 08:28	05/01/25 17:45	1

Lab Sample ID: LCS 880-109028/2-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109028

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1045		mg/Kg		104	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1010		mg/Kg		101	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	173	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: LCSD 880-109028/3-A
Matrix: Solid
Analysis Batch: 109158

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109028

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1014		mg/Kg		101	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	981.2		mg/Kg		98	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	169	S1+	70 - 130
o-Terphenyl	144	S1+	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8043-A-4-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109158 — **Prep Batch: 109028**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1231		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1241		mg/Kg		124	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*144*	*S1+*	*70 - 130*
o-Terphenyl	*145*	*S1+*	*70 - 130*

Lab Sample ID: 890-8043-A-4-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109158 — **Prep Batch: 109028**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	1259		mg/Kg		126	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1271		mg/Kg		127	70 - 130	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*147*	*S1+*	*70 - 130*
o-Terphenyl	*147*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-109114/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109160 — **Prep Batch: 109114**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/30/25 15:20	05/01/25 17:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/30/25 15:20	05/01/25 17:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/30/25 15:20	05/01/25 17:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*145*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 17:45*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*04/30/25 15:20*	*05/01/25 17:45*	*1*

Lab Sample ID: LCS 880-109114/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109160 — **Prep Batch: 109114**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	943.7		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1089		mg/Kg		109	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109114/2-A
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109114

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	145	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: LCSD 880-109114/3-A
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109114

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	935.9		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1032		mg/Kg		103	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	168	S1+	70 - 130
o-Terphenyl	150	S1+	70 - 130

Lab Sample ID: 890-8046-4 MS
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: CS 131
Prep Type: Total/NA
Prep Batch: 109114

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	995	1124		mg/Kg		113	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	995	1311		mg/Kg		130	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	165	S1+	70 - 130
o-Terphenyl	172	S1+	70 - 130

Lab Sample ID: 890-8046-4 MSD
Matrix: Solid
Analysis Batch: 109160

Client Sample ID: CS 131
Prep Type: Total/NA
Prep Batch: 109114

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	995	1132		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	995	1226		mg/Kg		122	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	191	S1+	70 - 130
o-Terphenyl	170	S1+	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109079/1-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/01/25 13:45	1

Lab Sample ID: LCS 880-109079/2-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.9		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-109079/3-A
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	257.7		mg/Kg		103	90 - 110	3	20

Lab Sample ID: 890-8044-A-6-C MS
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	119		252	383.5		mg/Kg		105	90 - 110		

Lab Sample ID: 890-8044-A-6-D MSD
Matrix: Solid
Analysis Batch: 109101

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	119		252	374.1		mg/Kg		101	90 - 110	2	20

Lab Sample ID: MB 880-109092/1-A
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			04/30/25 21:58	1

Lab Sample ID: LCS 880-109092/2-A
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.2		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-109092/3-A
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	238.3		mg/Kg		95	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-8046-5 MS
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: CS 160
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	415		251	671.0		mg/Kg		102	90 - 110		

Lab Sample ID: 890-8046-5 MSD
Matrix: Solid
Analysis Batch: 109104

Client Sample ID: CS 160
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	415		251	672.4		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

GC VOA

Analysis Batch: 109031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	8021B	109088
890-8046-2	CS 147	Total/NA	Solid	8021B	109088
890-8046-3	CS 148	Total/NA	Solid	8021B	109088
890-8046-4	CS 131	Total/NA	Solid	8021B	109088
890-8046-5	CS 160	Total/NA	Solid	8021B	109088
890-8046-6	CS 162	Total/NA	Solid	8021B	109088
890-8046-7	CS 163	Total/NA	Solid	8021B	109088
890-8046-8	CS 171	Total/NA	Solid	8021B	109038
MB 880-109038/5-A	Method Blank	Total/NA	Solid	8021B	109038
MB 880-109088/5-A	Method Blank	Total/NA	Solid	8021B	109088
LCS 880-109038/1-A	Lab Control Sample	Total/NA	Solid	8021B	109038
LCS 880-109088/1-A	Lab Control Sample	Total/NA	Solid	8021B	109088
LCSD 880-109038/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109038
LCSD 880-109088/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109088
880-57498-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	109088
880-57498-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109088
890-8045-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	109038
890-8045-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109038

Prep Batch: 109038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-8	CS 171	Total/NA	Solid	5035	
MB 880-109038/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109038/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109038/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8045-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8045-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 109088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	5035	
890-8046-2	CS 147	Total/NA	Solid	5035	
890-8046-3	CS 148	Total/NA	Solid	5035	
890-8046-4	CS 131	Total/NA	Solid	5035	
890-8046-5	CS 160	Total/NA	Solid	5035	
890-8046-6	CS 162	Total/NA	Solid	5035	
890-8046-7	CS 163	Total/NA	Solid	5035	
MB 880-109088/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109088/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109088/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57498-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-57498-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	Total BTEX	
890-8046-2	CS 147	Total/NA	Solid	Total BTEX	
890-8046-3	CS 148	Total/NA	Solid	Total BTEX	
890-8046-4	CS 131	Total/NA	Solid	Total BTEX	
890-8046-5	CS 160	Total/NA	Solid	Total BTEX	
890-8046-6	CS 162	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

GC VOA (Continued)

Analysis Batch: 109224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-7	CS 163	Total/NA	Solid	Total BTEX	
890-8046-8	CS 171	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	8015NM Prep	
890-8046-2	CS 147	Total/NA	Solid	8015NM Prep	
890-8046-3	CS 148	Total/NA	Solid	8015NM Prep	
MB 880-109028/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109028/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8043-A-4-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8043-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 109114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-4	CS 131	Total/NA	Solid	8015NM Prep	
890-8046-5	CS 160	Total/NA	Solid	8015NM Prep	
890-8046-6	CS 162	Total/NA	Solid	8015NM Prep	
890-8046-7	CS 163	Total/NA	Solid	8015NM Prep	
890-8046-8	CS 171	Total/NA	Solid	8015NM Prep	
MB 880-109114/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109114/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8046-4 MS	CS 131	Total/NA	Solid	8015NM Prep	
890-8046-4 MSD	CS 131	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	8015B NM	109028
890-8046-2	CS 147	Total/NA	Solid	8015B NM	109028
890-8046-3	CS 148	Total/NA	Solid	8015B NM	109028
MB 880-109028/1-A	Method Blank	Total/NA	Solid	8015B NM	109028
LCS 880-109028/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109028
LCSD 880-109028/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109028
890-8043-A-4-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109028
890-8043-A-4-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109028

Analysis Batch: 109160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-4	CS 131	Total/NA	Solid	8015B NM	109114
890-8046-5	CS 160	Total/NA	Solid	8015B NM	109114
890-8046-6	CS 162	Total/NA	Solid	8015B NM	109114
890-8046-7	CS 163	Total/NA	Solid	8015B NM	109114
890-8046-8	CS 171	Total/NA	Solid	8015B NM	109114
MB 880-109114/1-A	Method Blank	Total/NA	Solid	8015B NM	109114
LCS 880-109114/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109114
LCSD 880-109114/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109114
890-8046-4 MS	CS 131	Total/NA	Solid	8015B NM	109114

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

GC Semi VOA (Continued)

Analysis Batch: 109160 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-4 MSD	CS 131	Total/NA	Solid	8015B NM	109114

Analysis Batch: 109287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Total/NA	Solid	8015 NM	
890-8046-2	CS 147	Total/NA	Solid	8015 NM	
890-8046-3	CS 148	Total/NA	Solid	8015 NM	
890-8046-4	CS 131	Total/NA	Solid	8015 NM	
890-8046-5	CS 160	Total/NA	Solid	8015 NM	
890-8046-6	CS 162	Total/NA	Solid	8015 NM	
890-8046-7	CS 163	Total/NA	Solid	8015 NM	
890-8046-8	CS 171	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Soluble	Solid	DI Leach	
MB 880-109079/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109079/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109079/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8044-A-6-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8044-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 109092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-2	CS 147	Soluble	Solid	DI Leach	
890-8046-3	CS 148	Soluble	Solid	DI Leach	
890-8046-4	CS 131	Soluble	Solid	DI Leach	
890-8046-5	CS 160	Soluble	Solid	DI Leach	
890-8046-6	CS 162	Soluble	Solid	DI Leach	
890-8046-7	CS 163	Soluble	Solid	DI Leach	
890-8046-8	CS 171	Soluble	Solid	DI Leach	
MB 880-109092/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109092/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109092/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8046-5 MS	CS 160	Soluble	Solid	DI Leach	
890-8046-5 MSD	CS 160	Soluble	Solid	DI Leach	

Analysis Batch: 109101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-1	CS 133	Soluble	Solid	300.0	109079
MB 880-109079/1-A	Method Blank	Soluble	Solid	300.0	109079
LCS 880-109079/2-A	Lab Control Sample	Soluble	Solid	300.0	109079
LCSD 880-109079/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109079
890-8044-A-6-C MS	Matrix Spike	Soluble	Solid	300.0	109079
890-8044-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	109079

Analysis Batch: 109104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-2	CS 147	Soluble	Solid	300.0	109092

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

HPLC/IC (Continued)

Analysis Batch: 109104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8046-3	CS 148	Soluble	Solid	300.0	109092
890-8046-4	CS 131	Soluble	Solid	300.0	109092
890-8046-5	CS 160	Soluble	Solid	300.0	109092
890-8046-6	CS 162	Soluble	Solid	300.0	109092
890-8046-7	CS 163	Soluble	Solid	300.0	109092
890-8046-8	CS 171	Soluble	Solid	300.0	109092
MB 880-109092/1-A	Method Blank	Soluble	Solid	300.0	109092
LCS 880-109092/2-A	Lab Control Sample	Soluble	Solid	300.0	109092
LCSD 880-109092/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109092
890-8046-5 MS	CS 160	Soluble	Solid	300.0	109092
890-8046-5 MSD	CS 160	Soluble	Solid	300.0	109092

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 133

Date Collected: 04/28/25 10:41
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 04:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 04:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/02/25 00:03	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/02/25 00:03	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109079	04/30/25 10:58	SI	EET MID
Soluble	Analysis	300.0		1			109101	05/01/25 17:23	CH	EET MID

Client Sample ID: CS 147

Date Collected: 04/28/25 10:49
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 05:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 05:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/02/25 00:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/02/25 00:18	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	04/30/25 23:38	CH	EET MID

Client Sample ID: CS 148

Date Collected: 04/28/25 10:52
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 05:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 05:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/02/25 00:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109028	04/30/25 08:28	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109158	05/02/25 00:35	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	04/30/25 23:45	CH	EET MID

Client Sample ID: CS 131

Date Collected: 04/28/25 10:39
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 05:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 05:49	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 131

Date Collected: 04/28/25 10:39
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109287	05/01/25 18:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 18:36	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	04/30/25 23:53	CH	EET MID

Client Sample ID: CS 160

Date Collected: 04/28/25 13:14
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 06:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 06:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/01/25 19:26	SM	EET MID
Total/NA	Prep	8015NM Prep			140.01 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 19:26	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	05/01/25 00:00	CH	EET MID

Client Sample ID: CS 162

Date Collected: 04/28/25 13:16
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 06:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 06:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/01/25 19:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 19:42	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	05/01/25 00:21	CH	EET MID

Client Sample ID: CS 163

Date Collected: 04/28/25 13:17
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109088	04/30/25 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	05/01/25 06:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	05/01/25 06:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/01/25 19:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 19:59	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Client Sample ID: CS 163

Date Collected: 04/28/25 13:17
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	05/01/25 00:28	CH	EET MID

Client Sample ID: CS 171

Date Collected: 04/28/25 13:20
Date Received: 04/29/25 16:22

Lab Sample ID: 890-8046-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109038	04/30/25 08:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109031	04/30/25 19:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109224	04/30/25 19:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			109287	05/01/25 20:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	109114	04/30/25 15:20	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109160	05/01/25 20:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109092	04/30/25 13:17	SA	EET MID
Soluble	Analysis	300.0		1			109104	05/01/25 00:50	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8046-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8046-1	CS 133	Solid	04/28/25 10:41	04/29/25 16:22	0.5
890-8046-2	CS 147	Solid	04/28/25 10:49	04/29/25 16:22	0.5
890-8046-3	CS 148	Solid	04/28/25 10:52	04/29/25 16:22	0.5
890-8046-4	CS 131	Solid	04/28/25 10:39	04/29/25 16:22	0.5
890-8046-5	CS 160	Solid	04/28/25 13:14	04/29/25 16:22	0.5
890-8046-6	CS 162	Solid	04/28/25 13:16	04/29/25 16:22	0.5
890-8046-7	CS 163	Solid	04/28/25 13:17	04/29/25 16:22	0.5
890-8046-8	CS 171	Solid	04/28/25 13:20	04/29/25 16:22	0.5

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-8046 Chain of Custody

5/2/2025

Work Order No: _____

www.xenco.com Page ____1__ of ___1___

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	**Turn Around**	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Uriel Santillana	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TN007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.0
Total Containers:		Corrected Temperature:	5.8

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
CS133	S	4/28/25	1041	0.5'	C	1	X	X	X			
CS147			1049									
CS148			1052									
CS131			1039									
~~CS156~~			1058									
CS160			1314									
CS162			1316									
CS163			1317									
CS171	↓	↓	1320	↓	↓	↓	↓	↓	↓			

Parameters

Pres. Code

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		4/29/25 - 1508	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8046-1
SDG Number: 03D3836001

Login Number: 8046
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8046-1
SDG Number: 03D3836001

Login Number: 8046
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 04/30/25 08:04 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/6/2025 1:56:23 PM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8053-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

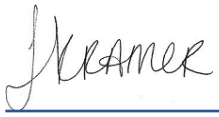
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/6/2025 1:56:23 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8053-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8053-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1 Eurofins Carlsbad

Job Narrative
890-8053-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/30/2025 4:55 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 0.6°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 156 (890-8053-1), CS 154 (890-8053-2), SW 01 (890-8053-3), SW 02 (890-8053-4), SW 03 (890-8053-5), CS 33 (890-8053-6), CS 64 (890-8053-7) and SW 04 (890-8053-8).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-109342 and analytical batch 880-109375 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS 154 (890-8053-2). 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.

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 156

Date Collected: 04/30/25 10:19
Date Received: 04/30/25 16:55
Sample Depth: 0.5

Lab Sample ID: 890-8053-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 17:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/02/25 13:32*	*05/05/25 17:53*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*05/02/25 13:32*	*05/05/25 17:53*	*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			05/05/25 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/25 02:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 02:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 02:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*05/01/25 10:11*	*05/06/25 02:24*	*1*
o-Terphenyl	*114*		*70 - 130*	*05/01/25 10:11*	*05/06/25 02:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**118**		10.1		mg/Kg			05/02/25 17:00	1

Client Sample ID: CS 154

Date Collected: 04/30/25 10:10
Date Received: 04/30/25 16:55
Sample Depth: 0.5

Lab Sample ID: 890-8053-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 18:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 13:32	05/05/25 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:14*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 154

Date Collected: 04/30/25 10:10
Date Received: 04/30/25 16:55
Sample Depth: 0.5

Lab Sample ID: 890-8053-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/05/25 18:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/06/25 09:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		05/01/25 10:11	05/06/25 09:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		05/01/25 10:11	05/06/25 09:57	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		05/01/25 10:11	05/06/25 09:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*120*		*70 - 130*	*05/01/25 10:11*	*05/06/25 09:57*	*1*
o-Terphenyl	*216*	*S1+*	*70 - 130*	*05/01/25 10:11*	*05/06/25 09:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**121**		10.0	mg/Kg			05/02/25 17:21	1

Client Sample ID: SW 01

Date Collected: 04/30/25 10:01
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

Lab Sample ID: 890-8053-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 18:34	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/02/25 13:32	05/05/25 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:34*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/05/25 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/06/25 10:13	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: SW 01

Lab Sample ID: 890-8053-3
Matrix: Solid
Date Collected: 04/30/25 10:01
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/01/25 10:11	05/06/25 10:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/01/25 10:11	05/06/25 10:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/01/25 10:11	05/06/25 10:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:13*	*1*
o-Terphenyl	*114*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**116**		10.1		mg/Kg			05/02/25 17:28	1

Client Sample ID: SW 02

Lab Sample ID: 890-8053-4
Matrix: Solid
Date Collected: 04/30/25 10:06
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 18:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:55*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*05/02/25 13:32*	*05/05/25 18:55*	*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			05/05/25 18:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/06/25 10:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 10:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 10:29	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 10:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:29*	*1*
o-Terphenyl	*111*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:29*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: SW 02

Lab Sample ID: 890-8053-4
Matrix: Solid
Date Collected: 04/30/25 10:06
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.6		9.96		mg/Kg			05/02/25 17:35	1

Client Sample ID: SW 03

Lab Sample ID: 890-8053-5
Matrix: Solid
Date Collected: 04/30/25 09:55
Date Received: 04/30/25 16:55
Sample Depth: 0-0.5

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:15	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/02/25 13:32	05/05/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:15*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/05/25 19:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/06/25 10:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/01/25 10:11	05/06/25 10:46	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/01/25 10:11	05/06/25 10:46	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/01/25 10:11	05/06/25 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:46*	*1*
o-Terphenyl	*107*		*70 - 130*	*05/01/25 10:11*	*05/06/25 10:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.2		9.98		mg/Kg			05/02/25 17:43	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 33

Lab Sample ID: 890-8053-6
Matrix: Solid
Date Collected: 04/30/25 12:55
Date Received: 04/30/25 16:55
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/02/25 13:32	05/05/25 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/02/25 13:32	05/05/25 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:35*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:35*	*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			05/05/25 19:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/06/25 11:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/01/25 10:11	05/06/25 11:02	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/01/25 10:11	05/06/25 11:02	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/01/25 10:11	05/06/25 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:02*	*1*
o-Terphenyl	*111*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**587**		9.92		mg/Kg			05/02/25 20:48	1

Client Sample ID: CS 64

Lab Sample ID: 890-8053-7
Matrix: Solid
Date Collected: 04/30/25 12:57
Date Received: 04/30/25 16:55
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/02/25 13:32	05/05/25 19:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/02/25 13:32	05/05/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:56*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 64

Lab Sample ID: 890-8053-7
Matrix: Solid
Date Collected: 04/30/25 12:57
Date Received: 04/30/25 16:55
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*05/02/25 13:32*	*05/05/25 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/05/25 19:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/06/25 11:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/01/25 10:11	05/06/25 11:18	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/01/25 10:11	05/06/25 11:18	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/01/25 10:11	05/06/25 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*116*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:18*	*1*
o-Terphenyl	*112*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**321**		10.1	mg/Kg			05/02/25 20:55	1

Client Sample ID: SW 04

Lab Sample ID: 890-8053-8
Matrix: Solid
Date Collected: 04/30/25 12:46
Date Received: 04/30/25 16:55
Sample Depth: 0-2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/25 13:32	05/05/25 20:16	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/02/25 13:32	05/05/25 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*05/02/25 13:32*	*05/05/25 20:16*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/02/25 13:32*	*05/05/25 20:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/05/25 20:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/06/25 11:33	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: SW 04

Lab Sample ID: 890-8053-8
Matrix: Solid
Date Collected: 04/30/25 12:46
Date Received: 04/30/25 16:55
Sample Depth: 0-2'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 11:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 11:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/06/25 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:33*	*1*
o-Terphenyl	*111*		*70 - 130*	*05/01/25 10:11*	*05/06/25 11:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1880**		49.7		mg/Kg			05/02/25 21:02	5

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-57645-A-1-A MS	Matrix Spike	97	97
880-57645-A-1-B MSD	Matrix Spike Duplicate	104	100
890-8053-1	CS 156	112	116
890-8053-2	CS 154	115	116
890-8053-3	SW 01	120	111
890-8053-4	SW 02	127	113
890-8053-5	SW 03	115	111
890-8053-6	CS 33	117	111
890-8053-7	CS 64	121	114
890-8053-8	SW 04	121	107
LCS 880-109342/1-A	Lab Control Sample	93	95
LCSD 880-109342/2-A	Lab Control Sample Dup	104	97
MB 880-109342/5-A	Method Blank	141 S1+	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-57572-A-11-B MS	Matrix Spike	100	103
880-57572-A-11-C MSD	Matrix Spike Duplicate	98	103
890-8053-1	CS 156	116	114
890-8053-2	CS 154	120	216 S1+
890-8053-3	SW 01	117	114
890-8053-4	SW 02	114	111
890-8053-5	SW 03	115	107
890-8053-6	CS 33	116	111
890-8053-7	CS 64	116	112
890-8053-8	SW 04	112	111
LCS 880-109177/2-A	Lab Control Sample	128	117
LCSD 880-109177/3-A	Lab Control Sample Dup	113	117
MB 880-109177/1-A	Method Blank	87	86

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109342/5-A
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109342

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/02/25 13:32	05/05/25 11:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/02/25 13:32	05/05/25 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*	*05/02/25 13:32*	*05/05/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/02/25 13:32*	*05/05/25 11:49*	*1*

Lab Sample ID: LCS 880-109342/1-A
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109342

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09715		mg/Kg		97	70 - 130		
Toluene			0.100	0.08587		mg/Kg		86	70 - 130		
Ethylbenzene			0.100	0.09496		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.1820		mg/Kg		91	70 - 130		
o-Xylene			0.100	0.09422		mg/Kg		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-109342/2-A
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109342

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1044		mg/Kg		104	70 - 130	7	35
Toluene			0.100	0.09672		mg/Kg		97	70 - 130	12	35
Ethylbenzene			0.100	0.1092		mg/Kg		109	70 - 130	14	35
m-Xylene & p-Xylene			0.200	0.2090		mg/Kg		104	70 - 130	14	35
o-Xylene			0.100	0.1064		mg/Kg		106	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-57645-A-1-A MS
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09876		mg/Kg		99	70 - 130		
Toluene	<0.00200	U	0.100	0.08809		mg/Kg		88	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-57645-A-1-A MS
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09286		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1803		mg/Kg		90	70 - 130
o-Xylene	<0.00200	U	0.100	0.09098		mg/Kg		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-57645-A-1-B MSD
Matrix: Solid
Analysis Batch: 109375

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1010		mg/Kg		101	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.09347		mg/Kg		93	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.100	0.1011		mg/Kg		101	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1969		mg/Kg		98	70 - 130	9	35
o-Xylene	<0.00200	U	0.100	0.09749		mg/Kg		97	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109177/1-A
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109177

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/05/25 21:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/05/25 21:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/01/25 10:11	05/05/25 21:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*05/01/25 10:11*	*05/05/25 21:32*	*1*
o-Terphenyl	*86*		*70 - 130*	*05/01/25 10:11*	*05/05/25 21:32*	*1*

Lab Sample ID: LCS 880-109177/2-A
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109177

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	911.3		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)			1000	919.3		mg/Kg		92	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109177/2-A
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109177

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: LCSD 880-109177/3-A
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109177

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	923.3		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	993.5		mg/Kg		99	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 880-57572-A-11-B MS
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109177

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	790.4		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	837.2		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 880-57572-A-11-C MSD
Matrix: Solid
Analysis Batch: 109398

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109177

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	788.4		mg/Kg		78	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	830.6		mg/Kg		83	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	103		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109293/1-A
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/02/25 16:39	1

Lab Sample ID: LCS 880-109293/2-A
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	257.0		mg/Kg		103	90 - 110		

Lab Sample ID: LCSD 880-109293/3-A
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	256.3		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-8053-1 MS
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: CS 156
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	118		252	381.3		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8053-1 MSD
Matrix: Solid
Analysis Batch: 109323

Client Sample ID: CS 156
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	118		252	380.6		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

GC VOA

Prep Batch: 109342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	5035	
890-8053-2	CS 154	Total/NA	Solid	5035	
890-8053-3	SW 01	Total/NA	Solid	5035	
890-8053-4	SW 02	Total/NA	Solid	5035	
890-8053-5	SW 03	Total/NA	Solid	5035	
890-8053-6	CS 33	Total/NA	Solid	5035	
890-8053-7	CS 64	Total/NA	Solid	5035	
890-8053-8	SW 04	Total/NA	Solid	5035	
MB 880-109342/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109342/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109342/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57645-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-57645-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	8021B	109342
890-8053-2	CS 154	Total/NA	Solid	8021B	109342
890-8053-3	SW 01	Total/NA	Solid	8021B	109342
890-8053-4	SW 02	Total/NA	Solid	8021B	109342
890-8053-5	SW 03	Total/NA	Solid	8021B	109342
890-8053-6	CS 33	Total/NA	Solid	8021B	109342
890-8053-7	CS 64	Total/NA	Solid	8021B	109342
890-8053-8	SW 04	Total/NA	Solid	8021B	109342
MB 880-109342/5-A	Method Blank	Total/NA	Solid	8021B	109342
LCS 880-109342/1-A	Lab Control Sample	Total/NA	Solid	8021B	109342
LCSD 880-109342/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109342
880-57645-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	109342
880-57645-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109342

Analysis Batch: 109493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	Total BTEX	
890-8053-2	CS 154	Total/NA	Solid	Total BTEX	
890-8053-3	SW 01	Total/NA	Solid	Total BTEX	
890-8053-4	SW 02	Total/NA	Solid	Total BTEX	
890-8053-5	SW 03	Total/NA	Solid	Total BTEX	
890-8053-6	CS 33	Total/NA	Solid	Total BTEX	
890-8053-7	CS 64	Total/NA	Solid	Total BTEX	
890-8053-8	SW 04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	8015NM Prep	
890-8053-2	CS 154	Total/NA	Solid	8015NM Prep	
890-8053-3	SW 01	Total/NA	Solid	8015NM Prep	
890-8053-4	SW 02	Total/NA	Solid	8015NM Prep	
890-8053-5	SW 03	Total/NA	Solid	8015NM Prep	
890-8053-6	CS 33	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

GC Semi VOA (Continued)

Prep Batch: 109177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-7	CS 64	Total/NA	Solid	8015NM Prep	
890-8053-8	SW 04	Total/NA	Solid	8015NM Prep	
MB 880-109177/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109177/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109177/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57572-A-11-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57572-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	8015B NM	109177
890-8053-2	CS 154	Total/NA	Solid	8015B NM	109177
890-8053-3	SW 01	Total/NA	Solid	8015B NM	109177
890-8053-4	SW 02	Total/NA	Solid	8015B NM	109177
890-8053-5	SW 03	Total/NA	Solid	8015B NM	109177
890-8053-6	CS 33	Total/NA	Solid	8015B NM	109177
890-8053-7	CS 64	Total/NA	Solid	8015B NM	109177
890-8053-8	SW 04	Total/NA	Solid	8015B NM	109177
MB 880-109177/1-A	Method Blank	Total/NA	Solid	8015B NM	109177
LCS 880-109177/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109177
LCSD 880-109177/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109177
880-57572-A-11-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109177
880-57572-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109177

Analysis Batch: 109553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Total/NA	Solid	8015 NM	
890-8053-2	CS 154	Total/NA	Solid	8015 NM	
890-8053-3	SW 01	Total/NA	Solid	8015 NM	
890-8053-4	SW 02	Total/NA	Solid	8015 NM	
890-8053-5	SW 03	Total/NA	Solid	8015 NM	
890-8053-6	CS 33	Total/NA	Solid	8015 NM	
890-8053-7	CS 64	Total/NA	Solid	8015 NM	
890-8053-8	SW 04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Soluble	Solid	DI Leach	
890-8053-2	CS 154	Soluble	Solid	DI Leach	
890-8053-3	SW 01	Soluble	Solid	DI Leach	
890-8053-4	SW 02	Soluble	Solid	DI Leach	
890-8053-5	SW 03	Soluble	Solid	DI Leach	
890-8053-6	CS 33	Soluble	Solid	DI Leach	
890-8053-7	CS 64	Soluble	Solid	DI Leach	
890-8053-8	SW 04	Soluble	Solid	DI Leach	
MB 880-109293/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109293/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109293/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8053-1 MS	CS 156	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

HPLC/IC (Continued)

Leach Batch: 109293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1 MSD	CS 156	Soluble	Solid	DI Leach	

Analysis Batch: 109323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8053-1	CS 156	Soluble	Solid	300.0	109293
890-8053-2	CS 154	Soluble	Solid	300.0	109293
890-8053-3	SW 01	Soluble	Solid	300.0	109293
890-8053-4	SW 02	Soluble	Solid	300.0	109293
890-8053-5	SW 03	Soluble	Solid	300.0	109293
890-8053-6	CS 33	Soluble	Solid	300.0	109293
890-8053-7	CS 64	Soluble	Solid	300.0	109293
890-8053-8	SW 04	Soluble	Solid	300.0	109293
MB 880-109293/1-A	Method Blank	Soluble	Solid	300.0	109293
LCS 880-109293/2-A	Lab Control Sample	Soluble	Solid	300.0	109293
LCSD 880-109293/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109293
890-8053-1 MS	CS 156	Soluble	Solid	300.0	109293
890-8053-1 MSD	CS 156	Soluble	Solid	300.0	109293

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 156

Date Collected: 04/30/25 10:19
Date Received: 04/30/25 16:55

Lab Sample ID: 890-8053-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 17:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 02:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 02:24	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:00	SMC	EET MID

Client Sample ID: CS 154

Date Collected: 04/30/25 10:10
Date Received: 04/30/25 16:55

Lab Sample ID: 890-8053-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 09:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 09:57	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:21	SMC	EET MID

Client Sample ID: SW 01

Date Collected: 04/30/25 10:01
Date Received: 04/30/25 16:55

Lab Sample ID: 890-8053-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 10:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 10:13	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:28	SMC	EET MID

Client Sample ID: SW 02

Date Collected: 04/30/25 10:06
Date Received: 04/30/25 16:55

Lab Sample ID: 890-8053-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 18:55	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: SW 02

Lab Sample ID: 890-8053-4
Matrix: Solid
Date Collected: 04/30/25 10:06
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109553	05/06/25 10:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 10:29	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:35	SMC	EET MID

Client Sample ID: SW 03

Lab Sample ID: 890-8053-5
Matrix: Solid
Date Collected: 04/30/25 09:55
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 19:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 10:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 10:46	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 17:43	SMC	EET MID

Client Sample ID: CS 33

Lab Sample ID: 890-8053-6
Matrix: Solid
Date Collected: 04/30/25 12:55
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 19:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 11:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 11:02	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 20:48	SMC	EET MID

Client Sample ID: CS 64

Lab Sample ID: 890-8053-7
Matrix: Solid
Date Collected: 04/30/25 12:57
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 19:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 11:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 11:18	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Client Sample ID: CS 64

Lab Sample ID: 890-8053-7
Matrix: Solid
Date Collected: 04/30/25 12:57
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		1			109323	05/02/25 20:55	SMC	EET MID

Client Sample ID: SW 04

Lab Sample ID: 890-8053-8
Matrix: Solid
Date Collected: 04/30/25 12:46
Date Received: 04/30/25 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	109342	05/02/25 13:32	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109375	05/05/25 20:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109493	05/05/25 20:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			109553	05/06/25 11:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109177	05/01/25 10:11	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109398	05/06/25 11:33	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109293	05/02/25 10:27	SA	EET MID
Soluble	Analysis	300.0		5			109323	05/02/25 21:02	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8053-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8053-1	CS 156	Solid	04/30/25 10:19	04/30/25 16:55	0.5
890-8053-2	CS 154	Solid	04/30/25 10:10	04/30/25 16:55	0.5
890-8053-3	SW 01	Solid	04/30/25 10:01	04/30/25 16:55	0-0.5
890-8053-4	SW 02	Solid	04/30/25 10:06	04/30/25 16:55	0-0.5
890-8053-5	SW 03	Solid	04/30/25 09:55	04/30/25 16:55	0-0.5
890-8053-6	CS 33	Solid	04/30/25 12:55	04/30/25 16:55	2'
890-8053-7	CS 64	Solid	04/30/25 12:57	04/30/25 16:55	2'
890-8053-8	SW 04	Solid	04/30/25 12:46	04/30/25 16:55	0-2'

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8053-1
SDG Number: 03D3836001

Login Number: 8053
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8053-1
SDG Number: 03D3836001

Login Number: 8053
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/02/25 08:48 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/9/2025 1:44:26 PM

JOB DESCRIPTION

Flatland FNR Frac Line
03D3836001

JOB NUMBER

890-8092-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

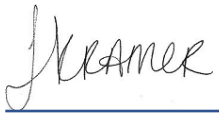
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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5/9/2025 1:44:26 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Laboratory Job ID: 890-8092-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8092-1
Project: Flatland FNR Frac Line

Job ID: 890-8092-1 Eurofins Carlsbad

Job Narrative
890-8092-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/5/2025 1:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS120 (890-8092-1), CS66 (890-8092-2), CS134 (890-8092-3), CS135 (890-8092-4), CS136 (890-8092-5), CS142 (890-8092-6), CS129 (890-8092-7), CS128 (890-8092-8), CS130 (890-8092-9) and CS132 (890-8092-10).

The following samples were listed on the Chain of Custody (COC); however, no samples were received: CS120 (890-8092-1), CS66 (890-8092-2), CS134 (890-8092-3), CS135 (890-8092-4), CS136 (890-8092-5), CS142 (890-8092-6), CS129 (890-8092-7), CS128 (890-8092-8), CS130 (890-8092-9) and CS132 (890-8092-10).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-109485 and analytical batch 880-109481 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109483 and analytical batch 880-109714 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS120

Lab Sample ID: 890-8092-1
Matrix: Solid
Date Collected: 05/01/25 10:05
Date Received: 05/05/25 13:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 11:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:39	05/06/25 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:49*	*1*

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 10:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 10:46	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 10:46	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/06/25 08:34*	*05/08/25 10:46*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/06/25 08:34*	*05/08/25 10:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		10.1		mg/Kg			05/07/25 01:55	1

Client Sample ID: CS66

Lab Sample ID: 890-8092-2
Matrix: Solid
Date Collected: 05/01/25 10:47
Date Received: 05/05/25 13:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/06/25 08:39*	*05/06/25 12:10*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/06/25 08:39*	*05/06/25 12:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS66

Lab Sample ID: 890-8092-2
Matrix: Solid
Date Collected: 05/01/25 10:47
Date Received: 05/05/25 13:57
Sample Depth: 2

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/08/25 11:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 11:01	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 11:01	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 11:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:01*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		10.0		mg/Kg			05/07/25 02:02	1

Client Sample ID: CS134

Lab Sample ID: 890-8092-3
Matrix: Solid
Date Collected: 05/01/25 13:15
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 12:30	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/06/25 08:39	05/06/25 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/06/25 08:39*	*05/06/25 12:30*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/06/25 08:39*	*05/06/25 12:30*	*1*

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/08/25 11:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 11:16	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 11:16	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:16*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS134

Lab Sample ID: 890-8092-3
Matrix: Solid
Date Collected: 05/01/25 13:15
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	364		9.98		mg/Kg			05/07/25 02:09	1

Client Sample ID: CS135

Lab Sample ID: 890-8092-4
Matrix: Solid
Date Collected: 05/01/25 13:10
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 13:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/06/25 08:39*	*05/06/25 13:52*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/06/25 08:39*	*05/06/25 13:52*	*1*

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/08/25 11:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/06/25 08:34	05/08/25 11:31	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/06/25 08:34	05/08/25 11:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/06/25 08:34	05/08/25 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:31*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	222		9.98		mg/Kg			05/07/25 02:16	1

Client Sample ID: CS142

Lab Sample ID: 890-8092-6
Matrix: Solid
Date Collected: 05/01/25 13:03
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 14:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 14:13	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/06/25 08:39	05/06/25 14:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 14:13	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS142

Lab Sample ID: 890-8092-6
Matrix: Solid
Date Collected: 05/01/25 13:03
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 14:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:13*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:13*	*1*

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 11:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 11:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 11:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:46*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/06/25 08:34*	*05/08/25 11:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**313**		9.92		mg/Kg			05/07/25 02:23	1

Client Sample ID: CS129

Lab Sample ID: 890-8092-7
Matrix: Solid
Date Collected: 05/01/25 13:54
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:39	05/06/25 14:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:39	05/06/25 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:33*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:33*	*1*

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 12:01	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS129

Lab Sample ID: 890-8092-7
Matrix: Solid
Date Collected: 05/01/25 13:54
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 12:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 12:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:01*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**320**		9.92		mg/Kg			05/07/25 02:44	1

Client Sample ID: CS128

Lab Sample ID: 890-8092-8
Matrix: Solid
Date Collected: 05/01/25 13:58
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 14:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/25 08:39	05/06/25 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:53*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/06/25 08:39*	*05/06/25 14:53*	*1*

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/08/25 12:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 12:15	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 12:15	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:15*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**269**		10.1		mg/Kg			05/07/25 02:52	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS130

Lab Sample ID: 890-8092-9
Matrix: Solid
Date Collected: 05/01/25 13:46
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:39	05/06/25 17:03	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:39	05/06/25 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:03*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:03*	*1*

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/08/25 12:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 12:30	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 12:30	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:30*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**364**		10.1		mg/Kg			05/07/25 03:13	1

Client Sample ID: CS132

Lab Sample ID: 890-8092-10
Matrix: Solid
Date Collected: 05/01/25 13:49
Date Received: 05/05/25 13:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:39	05/06/25 17:24	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:39	05/06/25 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:24*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/06/25 08:39*	*05/06/25 17:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS132

Date Collected: 05/01/25 13:49
Date Received: 05/05/25 13:57
Sample Depth: 1

Lab Sample ID: 890-8092-10

Matrix: Solid

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 12:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 12:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 12:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:45*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/06/25 08:34*	*05/08/25 12:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**233**		9.94		mg/Kg			05/07/25 03:20	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-8092-1	CS120	90	97										
890-8092-1 MS	CS120	106	87										
890-8092-1 MSD	CS120	111	104										
890-8092-2	CS66	99	78										
890-8092-3	CS134	90	86										
890-8092-4	CS135	92	83										
890-8092-6	CS142	87	84										
890-8092-7	CS129	92	73										
890-8092-8	CS128	94	83										
890-8092-9	CS130	92	94										
890-8092-10	CS132	93	96										
LCS 880-109485/1-A	Lab Control Sample	103	95										
LCSD 880-109485/2-A	Lab Control Sample Dup	108	88										
MB 880-109485/5-A	Method Blank	85	91										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-57666-A-1-H MS	Matrix Spike	98	83										
880-57666-A-1-I MSD	Matrix Spike Duplicate	96	82										
890-8092-1	CS120	98	89										
890-8092-2	CS66	99	90										
890-8092-3	CS134	97	89										
890-8092-4	CS135	98	91										
890-8092-6	CS142	99	91										
890-8092-7	CS129	100	90										
890-8092-8	CS128	103	93										
890-8092-9	CS130	99	89										
890-8092-10	CS132	102	93										
LCS 880-109483/2-A	Lab Control Sample	111	94										
LCSD 880-109483/3-A	Lab Control Sample Dup	98	82										
MB 880-109483/1-A	Method Blank	140 S1+	124										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109485/5-A
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109485

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:39	05/06/25 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/25 08:39	05/06/25 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:28*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/06/25 08:39*	*05/06/25 11:28*	*1*

Lab Sample ID: LCS 880-109485/1-A
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109485

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1160		mg/Kg		116	70 - 130		
Toluene			0.100	0.1089		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1330	*+	mg/Kg		133	70 - 130		
m-Xylene & p-Xylene			0.200	0.2508		mg/Kg		125	70 - 130		
o-Xylene			0.100	0.1251		mg/Kg		125	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: LCSD 880-109485/2-A
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109485

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1102		mg/Kg		110	70 - 130	5	35
Toluene			0.100	0.1036		mg/Kg		104	70 - 130	5	35
Ethylbenzene			0.100	0.1311	*+	mg/Kg		131	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2496		mg/Kg		125	70 - 130	0	35
o-Xylene			0.100	0.1247		mg/Kg		125	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 890-8092-1 MS
Matrix: Solid
Analysis Batch: 109481

Client Sample ID: CS120
Prep Type: Total/NA
Prep Batch: 109485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.100	0.09838		mg/Kg		98	70 - 130		
Toluene	<0.00198	U	0.100	0.09636		mg/Kg		96	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8092-1 MS — **Client Sample ID: CS120**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109481 — **Prep Batch: 109485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U *+	0.100	0.1131		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2180		mg/Kg		109	70 - 130
o-Xylene	<0.00198	U	0.100	0.1088		mg/Kg		109	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-8092-1 MSD — **Client Sample ID: CS120**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109481 — **Prep Batch: 109485**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.1113		mg/Kg		111	70 - 130	12	35
Toluene	<0.00198	U	0.100	0.09622		mg/Kg		96	70 - 130	0	35
Ethylbenzene	<0.00198	U *+	0.100	0.1070		mg/Kg		107	70 - 130	6	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2043		mg/Kg		102	70 - 130	6	35
o-Xylene	<0.00198	U	0.100	0.1196		mg/Kg		120	70 - 130	9	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109483/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109714 — **Prep Batch: 109483**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/06/25 08:34	05/08/25 02:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/06/25 08:34	05/08/25 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/06/25 08:34	05/08/25 02:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*
o-Terphenyl	*124*		*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*

Lab Sample ID: LCS 880-109483/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109714 — **Prep Batch: 109483**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1034		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109483/2-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109483

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-109483/3-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	922.8		mg/Kg		92	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	881.2		mg/Kg		88	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-57666-A-1-H MS
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	909.6		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	875.2		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-57666-A-1-I MSD
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	898.4		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	888.5		mg/Kg		89	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109537/1-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/07/25 00:23	1

Lab Sample ID: LCS 880-109537/2-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.1		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-109537/3-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.6		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-8092-6 MS
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: CS142
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	313		248	573.0		mg/Kg		105	90 - 110		

Lab Sample ID: 890-8092-6 MSD
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: CS142
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	313		248	574.0		mg/Kg		105	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

GC VOA

Analysis Batch: 109481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	8021B	109485
890-8092-2	CS66	Total/NA	Solid	8021B	109485
890-8092-3	CS134	Total/NA	Solid	8021B	109485
890-8092-4	CS135	Total/NA	Solid	8021B	109485
890-8092-6	CS142	Total/NA	Solid	8021B	109485
890-8092-7	CS129	Total/NA	Solid	8021B	109485
890-8092-8	CS128	Total/NA	Solid	8021B	109485
890-8092-9	CS130	Total/NA	Solid	8021B	109485
890-8092-10	CS132	Total/NA	Solid	8021B	109485
MB 880-109485/5-A	Method Blank	Total/NA	Solid	8021B	109485
LCS 880-109485/1-A	Lab Control Sample	Total/NA	Solid	8021B	109485
LCSD 880-109485/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109485
890-8092-1 MS	CS120	Total/NA	Solid	8021B	109485
890-8092-1 MSD	CS120	Total/NA	Solid	8021B	109485

Prep Batch: 109485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	5035	
890-8092-2	CS66	Total/NA	Solid	5035	
890-8092-3	CS134	Total/NA	Solid	5035	
890-8092-4	CS135	Total/NA	Solid	5035	
890-8092-6	CS142	Total/NA	Solid	5035	
890-8092-7	CS129	Total/NA	Solid	5035	
890-8092-8	CS128	Total/NA	Solid	5035	
890-8092-9	CS130	Total/NA	Solid	5035	
890-8092-10	CS132	Total/NA	Solid	5035	
MB 880-109485/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109485/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109485/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8092-1 MS	CS120	Total/NA	Solid	5035	
890-8092-1 MSD	CS120	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 109483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	8015NM Prep	
890-8092-2	CS66	Total/NA	Solid	8015NM Prep	
890-8092-3	CS134	Total/NA	Solid	8015NM Prep	
890-8092-4	CS135	Total/NA	Solid	8015NM Prep	
890-8092-6	CS142	Total/NA	Solid	8015NM Prep	
890-8092-7	CS129	Total/NA	Solid	8015NM Prep	
890-8092-8	CS128	Total/NA	Solid	8015NM Prep	
890-8092-9	CS130	Total/NA	Solid	8015NM Prep	
890-8092-10	CS132	Total/NA	Solid	8015NM Prep	
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57666-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57666-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

GC Semi VOA

Analysis Batch: 109714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	8015B NM	109483
890-8092-2	CS66	Total/NA	Solid	8015B NM	109483
890-8092-3	CS134	Total/NA	Solid	8015B NM	109483
890-8092-4	CS135	Total/NA	Solid	8015B NM	109483
890-8092-6	CS142	Total/NA	Solid	8015B NM	109483
890-8092-7	CS129	Total/NA	Solid	8015B NM	109483
890-8092-8	CS128	Total/NA	Solid	8015B NM	109483
890-8092-9	CS130	Total/NA	Solid	8015B NM	109483
890-8092-10	CS132	Total/NA	Solid	8015B NM	109483
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015B NM	109483
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109483
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109483
880-57666-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	109483
880-57666-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109483

Analysis Batch: 109810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Total/NA	Solid	8015 NM	
890-8092-2	CS66	Total/NA	Solid	8015 NM	
890-8092-3	CS134	Total/NA	Solid	8015 NM	
890-8092-4	CS135	Total/NA	Solid	8015 NM	
890-8092-6	CS142	Total/NA	Solid	8015 NM	
890-8092-7	CS129	Total/NA	Solid	8015 NM	
890-8092-8	CS128	Total/NA	Solid	8015 NM	
890-8092-9	CS130	Total/NA	Solid	8015 NM	
890-8092-10	CS132	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Soluble	Solid	DI Leach	
890-8092-2	CS66	Soluble	Solid	DI Leach	
890-8092-3	CS134	Soluble	Solid	DI Leach	
890-8092-4	CS135	Soluble	Solid	DI Leach	
890-8092-6	CS142	Soluble	Solid	DI Leach	
890-8092-7	CS129	Soluble	Solid	DI Leach	
890-8092-8	CS128	Soluble	Solid	DI Leach	
890-8092-9	CS130	Soluble	Solid	DI Leach	
890-8092-10	CS132	Soluble	Solid	DI Leach	
MB 880-109537/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109537/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109537/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8092-6 MS	CS142	Soluble	Solid	DI Leach	
890-8092-6 MSD	CS142	Soluble	Solid	DI Leach	

Analysis Batch: 109555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-1	CS120	Soluble	Solid	300.0	109537
890-8092-2	CS66	Soluble	Solid	300.0	109537
890-8092-3	CS134	Soluble	Solid	300.0	109537

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

HPLC/IC (Continued)

Analysis Batch: 109555 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8092-4	CS135	Soluble	Solid	300.0	109537
890-8092-6	CS142	Soluble	Solid	300.0	109537
890-8092-7	CS129	Soluble	Solid	300.0	109537
890-8092-8	CS128	Soluble	Solid	300.0	109537
890-8092-9	CS130	Soluble	Solid	300.0	109537
890-8092-10	CS132	Soluble	Solid	300.0	109537
MB 880-109537/1-A	Method Blank	Soluble	Solid	300.0	109537
LCS 880-109537/2-A	Lab Control Sample	Soluble	Solid	300.0	109537
LCSD 880-109537/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109537
890-8092-6 MS	CS142	Soluble	Solid	300.0	109537
890-8092-6 MSD	CS142	Soluble	Solid	300.0	109537

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS120

Lab Sample ID: 890-8092-1
Matrix: Solid
Date Collected: 05/01/25 10:05
Date Received: 05/05/25 13:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 11:49	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 10:46	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 10:46	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 01:55	CH	EET MID

Client Sample ID: CS66

Lab Sample ID: 890-8092-2
Matrix: Solid
Date Collected: 05/01/25 10:47
Date Received: 05/05/25 13:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 12:10	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 11:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 11:01	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:02	CH	EET MID

Client Sample ID: CS134

Lab Sample ID: 890-8092-3
Matrix: Solid
Date Collected: 05/01/25 13:15
Date Received: 05/05/25 13:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 12:30	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 11:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 11:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:09	CH	EET MID

Client Sample ID: CS135

Lab Sample ID: 890-8092-4
Matrix: Solid
Date Collected: 05/01/25 13:10
Date Received: 05/05/25 13:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 13:52	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 11:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 11:31	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS135
Date Collected: 05/01/25 13:10
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:16	CH	EET MID

Client Sample ID: CS142
Date Collected: 05/01/25 13:03
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 14:13	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 11:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 11:46	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:23	CH	EET MID

Client Sample ID: CS129
Date Collected: 05/01/25 13:54
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 14:33	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 12:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 12:01	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:44	CH	EET MID

Client Sample ID: CS128
Date Collected: 05/01/25 13:58
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 14:53	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 12:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 12:15	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 02:52	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Client Sample ID: CS130

Date Collected: 05/01/25 13:46
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 17:03	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 12:30	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:13	CH	EET MID

Client Sample ID: CS132

Date Collected: 05/01/25 13:49
Date Received: 05/05/25 13:57

Lab Sample ID: 890-8092-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109485	05/06/25 08:39	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109481	05/06/25 17:24	MNR	EET MID
Total/NA	Analysis	8015 NM		1			109810	05/08/25 12:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 12:45	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:20	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	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.

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 890-8092-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8092-1	CS120	Solid	05/01/25 10:05	05/05/25 13:57	2
890-8092-2	CS66	Solid	05/01/25 10:47	05/05/25 13:57	2
890-8092-3	CS134	Solid	05/01/25 13:15	05/05/25 13:57	1
890-8092-4	CS135	Solid	05/01/25 13:10	05/05/25 13:57	1
890-8092-6	CS142	Solid	05/01/25 13:03	05/05/25 13:57	1
890-8092-7	CS129	Solid	05/01/25 13:54	05/05/25 13:57	1
890-8092-8	CS128	Solid	05/01/25 13:58	05/05/25 13:57	1
890-8092-9	CS130	Solid	05/01/25 13:46	05/05/25 13:57	1
890-8092-10	CS132	Solid	05/01/25 13:49	05/05/25 13:57	1

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-8092 Chain of Custody

1 - 1

5/9/2025

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Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895 Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com	

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	**Turn Around**	Pres. Code
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	~~Uriel Santillana~~	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.4	
Total Containers:		Corrected Temperature:	5.2	

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
~~CS120~~ CS120	S	5/1/25	1005	2'	C	1	X	X	X			
CS 66			1047	2'								
CS134			1315	1'								
CS135			1310	1'								
~~CS136~~			1306	1'								
CS142			1303	1'								
CS 129			1354									
CS128			1358									
CS130			1346									
CS132	↓	↓	1349	↓	↓	↓	↓	↓	↓			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1:57 5/5			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8092-1
SDG Number: 03D3836001

Login Number: 8092
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8092-1
SDG Number: 03D3836001

Login Number: 8092
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/06/25 08:23 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/12/2025 12:23:35 PM

JOB DESCRIPTION

Flatland FNR FRAC LINE
03D3836001

JOB NUMBER

890-8093-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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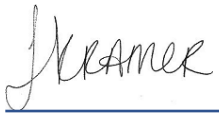
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8093-1
Project: Flatland FNR FRAC LINE

Job ID: 890-8093-1 Eurofins Carlsbad

Job Narrative
890-8093-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/5/2025 3:24 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 5.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 123 (890-8093-1), CS 124 (890-8093-2), CS 125 (890-8093-3), CS 126 (890-8093-4), CS 118 (890-8093-5), CS 119 (890-8093-6), CS 143 (890-8093-7), CS 144 (890-8093-8), CS 149 (890-8093-9), CS 116 (890-8093-10), CS 117 (890-8093-11), CS 127 (890-8093-12), CS 141 (890-8093-13), CS 112 (890-8093-14), CS 113 (890-8093-15), CS 114 (890-8093-16) and CS 115 (890-8093-17).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-109482 recovered under the lower control limit for Toluene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS 115 (890-8093-17). 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.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109483 and analytical batch 880-109714 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 115 (890-8093-17), (LCS 880-109484/2-A) and (890-8093-A-11-B MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS 117 (890-8093-11) and CS 113 (890-8093-15). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-109711 recovered above the upper control limit for Gasoline Range Organics (GRO)-C6-C10. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is:(CCV 880-109711/32).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-109552 and analytical batch 880-109561 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 123

Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24
Sample Depth: 2

Lab Sample ID: 890-8093-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 12:54	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/06/25 08:45*	*05/06/25 12:54*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/06/25 08:45*	*05/06/25 12:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/06/25 12:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 13:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 13:01	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 13:01	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:01*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**183**		9.98		mg/Kg			05/07/25 03:27	1

Client Sample ID: CS 124

Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24
Sample Depth: 2

Lab Sample ID: 890-8093-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 13:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/06/25 08:45*	*05/06/25 13:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 124

Lab Sample ID: 890-8093-2
Matrix: Solid
Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/06/25 08:45*	*05/06/25 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/06/25 13:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/25 13:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 13:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 13:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:15*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**253**		10.0	mg/Kg			05/07/25 03:34	1

Client Sample ID: CS 125

Lab Sample ID: 890-8093-3
Matrix: Solid
Date Collected: 05/02/25 09:30
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 13:35	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/06/25 08:45	05/06/25 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/06/25 08:45*	*05/06/25 13:35*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/06/25 08:45*	*05/06/25 13:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/06/25 13:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/08/25 13:30	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 125

Lab Sample ID: 890-8093-3
Matrix: Solid
Date Collected: 05/02/25 09:30
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 13:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 13:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:30*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**282**		9.90		mg/Kg			05/07/25 03:41	1

Client Sample ID: CS 126

Lab Sample ID: 890-8093-4
Matrix: Solid
Date Collected: 05/02/25 09:34
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/06/25 08:45	05/06/25 14:57	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/06/25 08:45	05/06/25 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/06/25 08:45*	*05/06/25 14:57*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/06/25 08:45*	*05/06/25 14:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/06/25 14:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 13:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 13:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 13:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/25 08:34	05/08/25 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:47*	*1*
o-Terphenyl	*86*		*70 - 130*	*05/06/25 08:34*	*05/08/25 13:47*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 126

Lab Sample ID: 890-8093-4
Matrix: Solid
Date Collected: 05/02/25 09:34
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	178		9.90		mg/Kg			05/07/25 03:48	1

Client Sample ID: CS 118

Lab Sample ID: 890-8093-5
Matrix: Solid
Date Collected: 05/02/25 09:40
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 15:17	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:17*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/06/25 15:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 14:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 14:02	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 14:02	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:34	05/08/25 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:02*	*1*
o-Terphenyl	*87*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.4		10.1		mg/Kg			05/07/25 03:55	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 119

Lab Sample ID: 890-8093-6
Matrix: Solid
Date Collected: 05/02/25 11:29
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 15:38	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:38*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:38*	*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			05/06/25 15:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/08/25 14:17	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 14:17	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 14:17	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/06/25 08:34	05/08/25 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:17*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		9.92		mg/Kg			05/07/25 00:49	1

Client Sample ID: CS 143

Lab Sample ID: 890-8093-7
Matrix: Solid
Date Collected: 05/02/25 11:31
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 15:58	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/25 08:45	05/06/25 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:58*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 143

Lab Sample ID: 890-8093-7
Matrix: Solid
Date Collected: 05/02/25 11:31
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/06/25 08:45*	*05/06/25 15:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/06/25 15:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/08/25 14:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 14:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/06/25 08:34	05/08/25 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:32*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**153**		9.90	mg/Kg			05/07/25 00:54	1

Client Sample ID: CS 144

Lab Sample ID: 890-8093-8
Matrix: Solid
Date Collected: 05/02/25 11:37
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/06/25 08:45	05/06/25 17:33	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/06/25 08:45	05/06/25 17:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/06/25 08:45*	*05/06/25 17:33*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 17:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/06/25 17:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			05/08/25 14:47	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 144

Lab Sample ID: 890-8093-8
Matrix: Solid
Date Collected: 05/02/25 11:37
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 14:47	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 14:47	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/06/25 08:34	05/08/25 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:47*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/06/25 08:34*	*05/08/25 14:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**476**	**F1**	10.1		mg/Kg			05/07/25 01:00	1

Client Sample ID: CS 149

Lab Sample ID: 890-8093-9
Matrix: Solid
Date Collected: 05/02/25 11:39
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 17:53	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/06/25 08:45*	*05/06/25 17:53*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/06/25 08:45*	*05/06/25 17:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/06/25 17:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 15:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 15:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 15:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:34	05/08/25 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/06/25 08:34*	*05/08/25 15:02*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/06/25 08:34*	*05/08/25 15:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 149

Lab Sample ID: 890-8093-9
Matrix: Solid
Date Collected: 05/02/25 11:39
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	190		10.1		mg/Kg			05/07/25 01:15	1

Client Sample ID: CS 116

Lab Sample ID: 890-8093-10
Matrix: Solid
Date Collected: 05/02/25 11:34
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 18:14	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/06/25 08:45	05/06/25 18:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:14*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/06/25 18:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/08/25 15:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 15:16	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 15:16	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/06/25 08:34	05/08/25 15:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*05/06/25 08:34*	*05/08/25 15:16*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/06/25 08:34*	*05/08/25 15:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		10.0		mg/Kg			05/07/25 01:20	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 117

Lab Sample ID: 890-8093-11
Matrix: Solid
Date Collected: 05/02/25 11:42
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00551**		0.00202		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 18:34	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:34*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00551**		0.00404		mg/Kg			05/06/25 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 21:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 21:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 21:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*05/06/25 08:38*	*05/08/25 21:12*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*05/06/25 08:38*	*05/08/25 21:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**		9.96		mg/Kg			05/07/25 01:36	1

Client Sample ID: CS 127

Lab Sample ID: 890-8093-12
Matrix: Solid
Date Collected: 05/02/25 11:44
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00200**		0.00199		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 18:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:55*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 127

Lab Sample ID: 890-8093-12
Matrix: Solid
Date Collected: 05/02/25 11:44
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/06/25 08:45*	*05/06/25 18:55*	*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			05/06/25 18:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			05/08/25 21:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		05/06/25 08:38	05/08/25 21:56	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		05/06/25 08:38	05/08/25 21:56	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		05/06/25 08:38	05/08/25 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*05/06/25 08:38*	*05/08/25 21:56*	*1*
o-Terphenyl	*78*		*70 - 130*	*05/06/25 08:38*	*05/08/25 21:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**229**		10.0	mg/Kg			05/07/25 01:41	1

Client Sample ID: CS 141

Lab Sample ID: 890-8093-13
Matrix: Solid
Date Collected: 05/02/25 12:36
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
Ethylbenzene	**0.00487**		0.00200	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
m-Xylene & p-Xylene	**0.00477**		0.00400	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
o-Xylene	**0.00454**		0.00200	mg/Kg		05/06/25 08:45	05/06/25 19:15	1
Xylenes, Total	**0.00931**		0.00400	mg/Kg		05/06/25 08:45	05/06/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:15*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0142**		0.00400	mg/Kg			05/06/25 19:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/08/25 22:11	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 141

Lab Sample ID: 890-8093-13
Matrix: Solid
Date Collected: 05/02/25 12:36
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/06/25 08:38	05/08/25 22:11	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/06/25 08:38	05/08/25 22:11	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/06/25 08:38	05/08/25 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:11*	*1*
o-Terphenyl	*73*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**288**		10.1		mg/Kg			05/07/25 01:46	1

Client Sample ID: CS 112

Lab Sample ID: 890-8093-14
Matrix: Solid
Date Collected: 05/02/25 12:39
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00212**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
Toluene	**0.00323**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
o-Xylene	**0.00321**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 19:36	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/06/25 08:45	05/06/25 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:36*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00856**		0.00397		mg/Kg			05/06/25 19:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 22:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:25*	*1*
o-Terphenyl	*72*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:25*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 112

Lab Sample ID: 890-8093-14
Matrix: Solid
Date Collected: 05/02/25 12:39
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**211**		10.1		mg/Kg			05/07/25 01:52	1

Client Sample ID: CS 113

Lab Sample ID: 890-8093-15
Matrix: Solid
Date Collected: 05/02/25 13:56
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
Toluene	**0.00233**		0.00202		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/25 08:45	05/06/25 19:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/25 08:45	05/06/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:56*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/06/25 08:45*	*05/06/25 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/06/25 19:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/08/25 22:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:41*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*05/06/25 08:38*	*05/08/25 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**332**		10.0		mg/Kg			05/07/25 01:57	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 114

Lab Sample ID: 890-8093-16
Matrix: Solid
Date Collected: 05/02/25 13:54
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
Toluene	**0.00539**		0.00199		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/25 08:45	05/06/25 20:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/25 08:45	05/06/25 20:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 20:17*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/06/25 08:45*	*05/06/25 20:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00539**		0.00398		mg/Kg			05/06/25 20:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 22:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 22:55	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 22:55	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/06/25 08:38	05/08/25 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:55*	*1*
o-Terphenyl	*121*		*70 - 130*	*05/06/25 08:38*	*05/08/25 22:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**304**		10.1		mg/Kg			05/07/25 02:02	1

Client Sample ID: CS 115

Lab Sample ID: 890-8093-17
Matrix: Solid
Date Collected: 05/02/25 13:50
Date Received: 05/05/25 15:24
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
Toluene	**0.00483**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
Ethylbenzene	**0.00580**		0.00198		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/25 08:45	05/06/25 20:37	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/25 08:45	05/06/25 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*05/06/25 08:45*	*05/06/25 20:37*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 115

Date Collected: 05/02/25 13:50
Date Received: 05/05/25 15:24
Sample Depth: 1

Lab Sample ID: 890-8093-17

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*05/06/25 08:45*	*05/06/25 20:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0106**		0.00396		mg/Kg			05/06/25 20:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			05/08/25 23:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		05/06/25 08:38	05/08/25 23:11	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		05/06/25 08:38	05/08/25 23:11	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		05/06/25 08:38	05/08/25 23:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*05/06/25 08:38*	*05/08/25 23:11*	*1*
o-Terphenyl	*136*	*S1+*	*70 - 130*	*05/06/25 08:38*	*05/08/25 23:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		10.1		mg/Kg			05/07/25 02:07	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-8093-1	CS 123	101	99										
890-8093-1 MS	CS 123	98	100										
890-8093-1 MSD	CS 123	104	101										
890-8093-2	CS 124	104	100										
890-8093-3	CS 125	103	103										
890-8093-4	CS 126	97	96										
890-8093-5	CS 118	106	103										
890-8093-6	CS 119	106	100										
890-8093-7	CS 143	106	101										
890-8093-8	CS 144	95	98										
890-8093-9	CS 149	108	107										
890-8093-10	CS 116	103	104										
890-8093-11	CS 117	84	98										
890-8093-12	CS 127	98	100										
890-8093-13	CS 141	93	104										
890-8093-14	CS 112	97	119										
890-8093-15	CS 113	95	97										
890-8093-16	CS 114	98	105										
890-8093-17	CS 115	76	67 S1-										
LCS 880-109486/1-A	Lab Control Sample	100	99										
LCSD 880-109486/2-A	Lab Control Sample Dup	96	106										
MB 880-109486/5-A	Method Blank	98	91										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-57666-A-1-H MS	Matrix Spike	98	83										
880-57666-A-1-I MSD	Matrix Spike Duplicate	96	82										
890-8093-1	CS 123	101	90										
890-8093-2	CS 124	103	93										
890-8093-3	CS 125	99	90										
890-8093-4	CS 126	96	86										
890-8093-5	CS 118	97	87										
890-8093-6	CS 119	96	88										
890-8093-7	CS 143	99	90										
890-8093-8	CS 144	101	92										
890-8093-9	CS 149	99	92										
890-8093-10	CS 116	100	91										
890-8093-11	CS 117	130	135 S1+										
890-8093-11 MS	CS 117	69 S1-	67 S1-										
890-8093-11 MSD	CS 117	81	74										
890-8093-12	CS 127	79	78										
890-8093-13	CS 141	74	73										

Surrogate Summary

Client: Ensolum Job ID: 890-8093-1
Project/Site: Flatland FNR FRAC LINE SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
890-8093-14	CS 112	73	72								
890-8093-15	CS 113	124	132 S1+								
890-8093-16	CS 114	118	121								
890-8093-17	CS 115	139 S1+	136 S1+								
LCS 880-109483/2-A	Lab Control Sample	111	94								
LCS 880-109484/2-A	Lab Control Sample	143 S1+	136 S1+								
LCSD 880-109483/3-A	Lab Control Sample Dup	98	82								
LCSD 880-109484/3-A	Lab Control Sample Dup	120	119								
MB 880-109483/1-A	Method Blank	140 S1+	124								
MB 880-109484/1-A	Method Blank	104	103								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109486/5-A
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109486

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/25 08:45	05/06/25 12:32	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/25 08:45	05/06/25 12:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/06/25 08:45*	*05/06/25 12:32*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/06/25 08:45*	*05/06/25 12:32*	*1*

Lab Sample ID: LCS 880-109486/1-A
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109486

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1115		mg/Kg		112	70 - 130		
Toluene			0.100	0.09809		mg/Kg		98	70 - 130		
Ethylbenzene			0.100	0.1061		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2084		mg/Kg		104	70 - 130		
o-Xylene			0.100	0.1031		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-109486/2-A
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109486

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1087		mg/Kg		109	70 - 130	3	35
Toluene			0.100	0.09434		mg/Kg		94	70 - 130	4	35
Ethylbenzene			0.100	0.1031		mg/Kg		103	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2034		mg/Kg		102	70 - 130	2	35
o-Xylene			0.100	0.1009		mg/Kg		101	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-8093-1 MS
Matrix: Solid
Analysis Batch: 109482

Client Sample ID: CS 123
Prep Type: Total/NA
Prep Batch: 109486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.100	0.09196		mg/Kg		92	70 - 130		
Toluene	<0.00198	U	0.100	0.08075		mg/Kg		81	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8093-1 MS — **Client Sample ID: CS 123**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109482 — **Prep Batch: 109486**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U	0.100	0.08735		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1709		mg/Kg		85	70 - 130
o-Xylene	<0.00198	U	0.100	0.08471		mg/Kg		85	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-8093-1 MSD — **Client Sample ID: CS 123**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109482 — **Prep Batch: 109486**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.100	0.09128		mg/Kg		91	70 - 130	1	35
Toluene	<0.00198	U	0.100	0.08029		mg/Kg		80	70 - 130	1	35
Ethylbenzene	<0.00198	U	0.100	0.08520		mg/Kg		85	70 - 130	2	35
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1668		mg/Kg		83	70 - 130	2	35
o-Xylene	<0.00198	U	0.100	0.08264		mg/Kg		83	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109483/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109714 — **Prep Batch: 109483**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/06/25 08:34	05/08/25 02:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/06/25 08:34	05/08/25 02:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/06/25 08:34	05/08/25 02:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*
o-Terphenyl	*124*		*70 - 130*	*05/06/25 08:34*	*05/08/25 02:58*	*1*

Lab Sample ID: LCS 880-109483/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109714 — **Prep Batch: 109483**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1034		mg/Kg		103	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1027		mg/Kg		103	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109483/2-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109483

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: LCSD 880-109483/3-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	922.8		mg/Kg		92	70 - 130	11	20
Diesel Range Organics (Over C10-C28)			1000	881.2		mg/Kg		88	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-57666-A-1-H MS
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	909.6		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	875.2		mg/Kg		88	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-57666-A-1-I MSD
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	898.4		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	888.5		mg/Kg		89	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-109484/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109711 — **Prep Batch: 109484**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 16:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 16:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/25 08:38	05/08/25 16:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*05/06/25 08:38*	*05/08/25 16:32*	*1*
o-Terphenyl	*103*		*70 - 130*	*05/06/25 08:38*	*05/08/25 16:32*	*1*

Lab Sample ID: LCS 880-109484/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109711 — **Prep Batch: 109484**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	919.2		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	912.8		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*143*	*S1+*	*70 - 130*
o-Terphenyl	*136*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-109484/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109711 — **Prep Batch: 109484**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	786.8		mg/Kg		79	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	807.5		mg/Kg		81	70 - 130	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*120*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: 890-8093-11 MS — **Client Sample ID: CS 117**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 109711 — **Prep Batch: 109484**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	937.3		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	997	877.4		mg/Kg		88	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8093-11 MS
Matrix: Solid
Analysis Batch: 109711

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 109484

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	67	S1-	70 - 130

Lab Sample ID: 890-8093-11 MSD
Matrix: Solid
Analysis Batch: 109711

Client Sample ID: CS 117
Prep Type: Total/NA
Prep Batch: 109484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	1093		mg/Kg		110	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<50.1	U	997	1007		mg/Kg		101	70 - 130	14	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	74		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109537/1-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/07/25 00:23	1

Lab Sample ID: LCS 880-109537/2-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	255.1		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-109537/3-A
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	252.6		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-8092-A-6-D MS
Matrix: Solid
Analysis Batch: 109555

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	313		248	573.0		mg/Kg		105	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8092-A-6-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	313		248	574.0		mg/Kg		105	90 - 110	0	20

Lab Sample ID: MB 880-109552/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109561

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/06/25 23:32	1

Lab Sample ID: LCS 880-109552/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109561

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	251.7		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-109552/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109561

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	253.0		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-8093-8 MS — **Client Sample ID: CS 144**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109561

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	476	F1	252	755.8	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 890-8093-8 MSD — **Client Sample ID: CS 144**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 109561

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	476	F1	252	758.5	F1	mg/Kg		112	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

GC VOA

Analysis Batch: 109482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	8021B	109486
890-8093-2	CS 124	Total/NA	Solid	8021B	109486
890-8093-3	CS 125	Total/NA	Solid	8021B	109486
890-8093-4	CS 126	Total/NA	Solid	8021B	109486
890-8093-5	CS 118	Total/NA	Solid	8021B	109486
890-8093-6	CS 119	Total/NA	Solid	8021B	109486
890-8093-7	CS 143	Total/NA	Solid	8021B	109486
890-8093-8	CS 144	Total/NA	Solid	8021B	109486
890-8093-9	CS 149	Total/NA	Solid	8021B	109486
890-8093-10	CS 116	Total/NA	Solid	8021B	109486
890-8093-11	CS 117	Total/NA	Solid	8021B	109486
890-8093-12	CS 127	Total/NA	Solid	8021B	109486
890-8093-13	CS 141	Total/NA	Solid	8021B	109486
890-8093-14	CS 112	Total/NA	Solid	8021B	109486
890-8093-15	CS 113	Total/NA	Solid	8021B	109486
890-8093-16	CS 114	Total/NA	Solid	8021B	109486
890-8093-17	CS 115	Total/NA	Solid	8021B	109486
MB 880-109486/5-A	Method Blank	Total/NA	Solid	8021B	109486
LCS 880-109486/1-A	Lab Control Sample	Total/NA	Solid	8021B	109486
LCSD 880-109486/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109486
890-8093-1 MS	CS 123	Total/NA	Solid	8021B	109486
890-8093-1 MSD	CS 123	Total/NA	Solid	8021B	109486

Prep Batch: 109486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	5035	
890-8093-2	CS 124	Total/NA	Solid	5035	
890-8093-3	CS 125	Total/NA	Solid	5035	
890-8093-4	CS 126	Total/NA	Solid	5035	
890-8093-5	CS 118	Total/NA	Solid	5035	
890-8093-6	CS 119	Total/NA	Solid	5035	
890-8093-7	CS 143	Total/NA	Solid	5035	
890-8093-8	CS 144	Total/NA	Solid	5035	
890-8093-9	CS 149	Total/NA	Solid	5035	
890-8093-10	CS 116	Total/NA	Solid	5035	
890-8093-11	CS 117	Total/NA	Solid	5035	
890-8093-12	CS 127	Total/NA	Solid	5035	
890-8093-13	CS 141	Total/NA	Solid	5035	
890-8093-14	CS 112	Total/NA	Solid	5035	
890-8093-15	CS 113	Total/NA	Solid	5035	
890-8093-16	CS 114	Total/NA	Solid	5035	
890-8093-17	CS 115	Total/NA	Solid	5035	
MB 880-109486/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109486/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109486/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8093-1 MS	CS 123	Total/NA	Solid	5035	
890-8093-1 MSD	CS 123	Total/NA	Solid	5035	

Analysis Batch: 109982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

GC VOA (Continued)

Analysis Batch: 109982 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-2	CS 124	Total/NA	Solid	Total BTEX	
890-8093-3	CS 125	Total/NA	Solid	Total BTEX	
890-8093-4	CS 126	Total/NA	Solid	Total BTEX	
890-8093-5	CS 118	Total/NA	Solid	Total BTEX	
890-8093-6	CS 119	Total/NA	Solid	Total BTEX	
890-8093-7	CS 143	Total/NA	Solid	Total BTEX	
890-8093-8	CS 144	Total/NA	Solid	Total BTEX	
890-8093-9	CS 149	Total/NA	Solid	Total BTEX	
890-8093-10	CS 116	Total/NA	Solid	Total BTEX	
890-8093-11	CS 117	Total/NA	Solid	Total BTEX	
890-8093-12	CS 127	Total/NA	Solid	Total BTEX	
890-8093-13	CS 141	Total/NA	Solid	Total BTEX	
890-8093-14	CS 112	Total/NA	Solid	Total BTEX	
890-8093-15	CS 113	Total/NA	Solid	Total BTEX	
890-8093-16	CS 114	Total/NA	Solid	Total BTEX	
890-8093-17	CS 115	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	8015NM Prep	
890-8093-2	CS 124	Total/NA	Solid	8015NM Prep	
890-8093-3	CS 125	Total/NA	Solid	8015NM Prep	
890-8093-4	CS 126	Total/NA	Solid	8015NM Prep	
890-8093-5	CS 118	Total/NA	Solid	8015NM Prep	
890-8093-6	CS 119	Total/NA	Solid	8015NM Prep	
890-8093-7	CS 143	Total/NA	Solid	8015NM Prep	
890-8093-8	CS 144	Total/NA	Solid	8015NM Prep	
890-8093-9	CS 149	Total/NA	Solid	8015NM Prep	
890-8093-10	CS 116	Total/NA	Solid	8015NM Prep	
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57666-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-57666-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 109484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-11	CS 117	Total/NA	Solid	8015NM Prep	
890-8093-12	CS 127	Total/NA	Solid	8015NM Prep	
890-8093-13	CS 141	Total/NA	Solid	8015NM Prep	
890-8093-14	CS 112	Total/NA	Solid	8015NM Prep	
890-8093-15	CS 113	Total/NA	Solid	8015NM Prep	
890-8093-16	CS 114	Total/NA	Solid	8015NM Prep	
890-8093-17	CS 115	Total/NA	Solid	8015NM Prep	
MB 880-109484/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109484/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109484/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8093-11 MS	CS 117	Total/NA	Solid	8015NM Prep	
890-8093-11 MSD	CS 117	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

GC Semi VOA

Analysis Batch: 109711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-11	CS 117	Total/NA	Solid	8015B NM	109484
890-8093-12	CS 127	Total/NA	Solid	8015B NM	109484
890-8093-13	CS 141	Total/NA	Solid	8015B NM	109484
890-8093-14	CS 112	Total/NA	Solid	8015B NM	109484
890-8093-15	CS 113	Total/NA	Solid	8015B NM	109484
890-8093-16	CS 114	Total/NA	Solid	8015B NM	109484
890-8093-17	CS 115	Total/NA	Solid	8015B NM	109484
MB 880-109484/1-A	Method Blank	Total/NA	Solid	8015B NM	109484
LCS 880-109484/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109484
LCSD 880-109484/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109484
890-8093-11 MS	CS 117	Total/NA	Solid	8015B NM	109484
890-8093-11 MSD	CS 117	Total/NA	Solid	8015B NM	109484

Analysis Batch: 109714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	8015B NM	109483
890-8093-2	CS 124	Total/NA	Solid	8015B NM	109483
890-8093-3	CS 125	Total/NA	Solid	8015B NM	109483
890-8093-4	CS 126	Total/NA	Solid	8015B NM	109483
890-8093-5	CS 118	Total/NA	Solid	8015B NM	109483
890-8093-6	CS 119	Total/NA	Solid	8015B NM	109483
890-8093-7	CS 143	Total/NA	Solid	8015B NM	109483
890-8093-8	CS 144	Total/NA	Solid	8015B NM	109483
890-8093-9	CS 149	Total/NA	Solid	8015B NM	109483
890-8093-10	CS 116	Total/NA	Solid	8015B NM	109483
MB 880-109483/1-A	Method Blank	Total/NA	Solid	8015B NM	109483
LCS 880-109483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109483
LCSD 880-109483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109483
880-57666-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	109483
880-57666-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109483

Analysis Batch: 109811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Total/NA	Solid	8015 NM	
890-8093-2	CS 124	Total/NA	Solid	8015 NM	
890-8093-3	CS 125	Total/NA	Solid	8015 NM	
890-8093-4	CS 126	Total/NA	Solid	8015 NM	
890-8093-5	CS 118	Total/NA	Solid	8015 NM	
890-8093-6	CS 119	Total/NA	Solid	8015 NM	
890-8093-7	CS 143	Total/NA	Solid	8015 NM	
890-8093-8	CS 144	Total/NA	Solid	8015 NM	
890-8093-9	CS 149	Total/NA	Solid	8015 NM	
890-8093-10	CS 116	Total/NA	Solid	8015 NM	
890-8093-11	CS 117	Total/NA	Solid	8015 NM	
890-8093-12	CS 127	Total/NA	Solid	8015 NM	
890-8093-13	CS 141	Total/NA	Solid	8015 NM	
890-8093-14	CS 112	Total/NA	Solid	8015 NM	
890-8093-15	CS 113	Total/NA	Solid	8015 NM	
890-8093-16	CS 114	Total/NA	Solid	8015 NM	
890-8093-17	CS 115	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

HPLC/IC

Leach Batch: 109537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Soluble	Solid	DI Leach	
890-8093-2	CS 124	Soluble	Solid	DI Leach	
890-8093-3	CS 125	Soluble	Solid	DI Leach	
890-8093-4	CS 126	Soluble	Solid	DI Leach	
890-8093-5	CS 118	Soluble	Solid	DI Leach	
MB 880-109537/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109537/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109537/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8092-A-6-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8092-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 109552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-6	CS 119	Soluble	Solid	DI Leach	
890-8093-7	CS 143	Soluble	Solid	DI Leach	
890-8093-8	CS 144	Soluble	Solid	DI Leach	
890-8093-9	CS 149	Soluble	Solid	DI Leach	
890-8093-10	CS 116	Soluble	Solid	DI Leach	
890-8093-11	CS 117	Soluble	Solid	DI Leach	
890-8093-12	CS 127	Soluble	Solid	DI Leach	
890-8093-13	CS 141	Soluble	Solid	DI Leach	
890-8093-14	CS 112	Soluble	Solid	DI Leach	
890-8093-15	CS 113	Soluble	Solid	DI Leach	
890-8093-16	CS 114	Soluble	Solid	DI Leach	
890-8093-17	CS 115	Soluble	Solid	DI Leach	
MB 880-109552/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109552/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109552/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8093-8 MS	CS 144	Soluble	Solid	DI Leach	
890-8093-8 MSD	CS 144	Soluble	Solid	DI Leach	

Analysis Batch: 109555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-1	CS 123	Soluble	Solid	300.0	109537
890-8093-2	CS 124	Soluble	Solid	300.0	109537
890-8093-3	CS 125	Soluble	Solid	300.0	109537
890-8093-4	CS 126	Soluble	Solid	300.0	109537
890-8093-5	CS 118	Soluble	Solid	300.0	109537
MB 880-109537/1-A	Method Blank	Soluble	Solid	300.0	109537
LCS 880-109537/2-A	Lab Control Sample	Soluble	Solid	300.0	109537
LCSD 880-109537/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109537
890-8092-A-6-D MS	Matrix Spike	Soluble	Solid	300.0	109537
890-8092-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	109537

Analysis Batch: 109561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-6	CS 119	Soluble	Solid	300.0	109552
890-8093-7	CS 143	Soluble	Solid	300.0	109552
890-8093-8	CS 144	Soluble	Solid	300.0	109552
890-8093-9	CS 149	Soluble	Solid	300.0	109552
890-8093-10	CS 116	Soluble	Solid	300.0	109552

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

HPLC/IC (Continued)

Analysis Batch: 109561 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8093-11	CS 117	Soluble	Solid	300.0	109552
890-8093-12	CS 127	Soluble	Solid	300.0	109552
890-8093-13	CS 141	Soluble	Solid	300.0	109552
890-8093-14	CS 112	Soluble	Solid	300.0	109552
890-8093-15	CS 113	Soluble	Solid	300.0	109552
890-8093-16	CS 114	Soluble	Solid	300.0	109552
890-8093-17	CS 115	Soluble	Solid	300.0	109552
MB 880-109552/1-A	Method Blank	Soluble	Solid	300.0	109552
LCS 880-109552/2-A	Lab Control Sample	Soluble	Solid	300.0	109552
LCSD 880-109552/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109552
890-8093-8 MS	CS 144	Soluble	Solid	300.0	109552
890-8093-8 MSD	CS 144	Soluble	Solid	300.0	109552

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 123

Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 12:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 12:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 13:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 13:01	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:27	CH	EET MID

Client Sample ID: CS 124

Date Collected: 05/02/25 09:25
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 13:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 13:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 13:15	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:34	CH	EET MID

Client Sample ID: CS 125

Date Collected: 05/02/25 09:30
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 13:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 13:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 13:30	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:41	CH	EET MID

Client Sample ID: CS 126

Date Collected: 05/02/25 09:34
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 14:57	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 126

Date Collected: 05/02/25 09:34
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109811	05/08/25 13:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 13:47	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:48	CH	EET MID

Client Sample ID: CS 118

Date Collected: 05/02/25 09:40
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 15:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 15:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 14:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 14:02	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109537	05/06/25 13:59	SA	EET MID
Soluble	Analysis	300.0		1			109555	05/07/25 03:55	CH	EET MID

Client Sample ID: CS 119

Date Collected: 05/02/25 11:29
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 15:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 15:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 14:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 14:17	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 00:49	CH	EET MID

Client Sample ID: CS 143

Date Collected: 05/02/25 11:31
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 15:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 14:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 14:32	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 143
Date Collected: 05/02/25 11:31
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 00:54	CH	EET MID

Client Sample ID: CS 144
Date Collected: 05/02/25 11:37
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 17:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 17:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 14:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 14:47	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:00	CH	EET MID

Client Sample ID: CS 149
Date Collected: 05/02/25 11:39
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 17:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 17:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 15:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 15:02	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:15	CH	EET MID

Client Sample ID: CS 116
Date Collected: 05/02/25 11:34
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 18:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 18:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 15:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	109483	05/06/25 08:34	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109714	05/08/25 15:16	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:20	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 117

Date Collected: 05/02/25 11:42
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 18:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 18:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 21:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 21:12	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:36	CH	EET MID

Client Sample ID: CS 127

Date Collected: 05/02/25 11:44
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 18:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 21:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 21:56	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:41	CH	EET MID

Client Sample ID: CS 141

Date Collected: 05/02/25 12:36
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 19:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 22:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 22:11	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:46	CH	EET MID

Client Sample ID: CS 112

Date Collected: 05/02/25 12:39
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 19:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 19:36	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 112

Date Collected: 05/02/25 12:39
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109811	05/08/25 22:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 22:25	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:52	CH	EET MID

Client Sample ID: CS 113

Date Collected: 05/02/25 13:56
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 19:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 19:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 22:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 22:41	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 01:57	CH	EET MID

Client Sample ID: CS 114

Date Collected: 05/02/25 13:54
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 20:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 20:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 22:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 22:55	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 02:02	CH	EET MID

Client Sample ID: CS 115

Date Collected: 05/02/25 13:50
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109486	05/06/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109482	05/06/25 20:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109982	05/06/25 20:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			109811	05/08/25 23:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	109484	05/06/25 08:38	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109711	05/08/25 23:11	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Client Sample ID: CS 115

Date Collected: 05/02/25 13:50
Date Received: 05/05/25 15:24

Lab Sample ID: 890-8093-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	109552	05/06/25 14:06	SA	EET MID
Soluble	Analysis	300.0		1			109561	05/07/25 02:07	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR FRAC LINE

Job ID: 890-8093-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8093-1	CS 123	Solid	05/02/25 09:25	05/05/25 15:24	2
890-8093-2	CS 124	Solid	05/02/25 09:25	05/05/25 15:24	2
890-8093-3	CS 125	Solid	05/02/25 09:30	05/05/25 15:24	1
890-8093-4	CS 126	Solid	05/02/25 09:34	05/05/25 15:24	1
890-8093-5	CS 118	Solid	05/02/25 09:40	05/05/25 15:24	1
890-8093-6	CS 119	Solid	05/02/25 11:29	05/05/25 15:24	1
890-8093-7	CS 143	Solid	05/02/25 11:31	05/05/25 15:24	1
890-8093-8	CS 144	Solid	05/02/25 11:37	05/05/25 15:24	1
890-8093-9	CS 149	Solid	05/02/25 11:39	05/05/25 15:24	1
890-8093-10	CS 116	Solid	05/02/25 11:34	05/05/25 15:24	1
890-8093-11	CS 117	Solid	05/02/25 11:42	05/05/25 15:24	1
890-8093-12	CS 127	Solid	05/02/25 11:44	05/05/25 15:24	1
890-8093-13	CS 141	Solid	05/02/25 12:36	05/05/25 15:24	1
890-8093-14	CS 112	Solid	05/02/25 12:39	05/05/25 15:24	1
890-8093-15	CS 113	Solid	05/02/25 13:56	05/05/25 15:24	1
890-8093-16	CS 114	Solid	05/02/25 13:54	05/05/25 15:24	1
890-8093-17	CS 115	Solid	05/02/25 13:50	05/05/25 15:24	1

Page 1293 of 1747

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Chain of Custody

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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

890-8093 Chain of Custody

5/12/2025

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum,LLC	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895 Email:	usantillana@ensolum.com/ Hgreen@ensolum.com/ kthompson@ensolum.com	

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	**Turn Around**	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Uriel Santillana	~~TAT starts the day received by~~ the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.4
Total Containers:		Corrected Temperature:	5.2

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	TEG - 8015D	TX1006	Sample Comments
CS123	S	5/12/25	925	2'	C	1		X	X	X			
CS124			930										
CS125			934										
CS126			940	2'									
CS118			1129	1'									
CS119			1131										
CS143			1137										
CS144			1139										
CS149			1134										
CS116	↓	↓	1142	1'	↓	↓		↓	↓	↓			

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1:57 5/12	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8093-1
SDG Number: 03D3836001

Login Number: 8093
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8093-1
SDG Number: 03D3836001

Login Number: 8093
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/06/25 08:23 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/12/2025 9:19:14 AM

JOB DESCRIPTION

Flatland FNR Frac line
03D383600

JOB NUMBER

890-8112-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

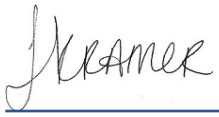
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/12/2025 9:19:14 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR Frac line

Laboratory Job ID: 890-8112-1
SDG: 03D383600

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8112-1
Project: Flatland FNR Frac line

Job ID: 890-8112-1 Eurofins Carlsbad

Job Narrative
890-8112-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/6/2025 11:00 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 4.4°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 85 (890-8112-1), CS 88 (890-8112-2), CS 89 (890-8112-3), CS 95 (890-8112-4), CS 96 (890-8112-5), CS 99 (890-8112-6), CS 100 (890-8112-7), CS 101 (890-8112-8), CS 102 (890-8112-9), CS 103 (890-8112-10), CS 105 (890-8112-11), CS 106 (890-8112-12), CS 107 (890-8112-13), CS 108 (890-8112-14), CS 109 (890-8112-15), CS 110 (890-8112-16), CS 121 (890-8112-17) and CS 122 (890-8112-18).

GC VOA
Method 8021B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 880-109606 and analytical batch 880-109657 recovered outside control limits for the following analytes: Ethylbenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109589 and analytical batch 880-109892 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-109589/2-A) and (LCSD 880-109589/3-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
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-109649 and analytical batch 880-109658 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 85

Lab Sample ID: 890-8112-1
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 17:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/07/25 09:10*	*05/07/25 17:49*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/07/25 09:10*	*05/07/25 17:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/07/25 17:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/09/25 20:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 20:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 20:36	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/07/25 08:05*	*05/09/25 20:36*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/07/25 08:05*	*05/09/25 20:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**287**		9.92		mg/Kg			05/07/25 17:21	1

Client Sample ID: CS 88

Lab Sample ID: 890-8112-2
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 18:10	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/25 09:10	05/07/25 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 88

Lab Sample ID: 890-8112-2
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/07/25 18:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/09/25 20:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/07/25 08:05	05/09/25 20:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/07/25 08:05	05/09/25 20:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/07/25 08:05	05/09/25 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*05/07/25 08:05*	*05/09/25 20:50*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:05*	*05/09/25 20:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**191**	**F1**	9.96	mg/Kg			05/07/25 20:13	1

Client Sample ID: CS 89

Lab Sample ID: 890-8112-3
Matrix: Solid
Date Collected: 05/05/25 10:26
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/07/25 18:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/07/25 09:10	05/07/25 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:30*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:30*	*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			05/07/25 18:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/09/25 21:06	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 89

Lab Sample ID: 890-8112-3
Matrix: Solid
Date Collected: 05/05/25 10:26
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:06*	*1*
o-Terphenyl	*79*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**181**		10.0		mg/Kg			05/07/25 20:35	1

Client Sample ID: CS 95

Lab Sample ID: 890-8112-4
Matrix: Solid
Date Collected: 05/05/25 10:39
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 18:51	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:51*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/07/25 09:10*	*05/07/25 18:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/07/25 18:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/09/25 21:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 08:05	05/09/25 21:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 08:05	05/09/25 21:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 08:05	05/09/25 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:20*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:20*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 95

Lab Sample ID: 890-8112-4
Matrix: Solid
Date Collected: 05/05/25 10:39
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		10.0		mg/Kg			05/07/25 20:43	1

Client Sample ID: CS 96

Lab Sample ID: 890-8112-5
Matrix: Solid
Date Collected: 05/05/25 10:38
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 19:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:11*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/07/25 19:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/09/25 21:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:05	05/09/25 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:35*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	242		10.1		mg/Kg			05/07/25 20:50	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 99

Lab Sample ID: 890-8112-6
Matrix: Solid
Date Collected: 05/05/25 10:28
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 19:32	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:32*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/07/25 19:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/09/25 21:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 21:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 21:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:05	05/09/25 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:50*	*1*
o-Terphenyl	*78*		*70 - 130*	*05/07/25 08:05*	*05/09/25 21:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		9.94		mg/Kg			05/07/25 20:57	1

Client Sample ID: CS 100

Lab Sample ID: 890-8112-7
Matrix: Solid
Date Collected: 05/05/25 10:30
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/25 09:10	05/07/25 19:52	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/25 09:10	05/07/25 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:52*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 100

Lab Sample ID: 890-8112-7
Matrix: Solid
Date Collected: 05/05/25 10:30
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 19:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/07/25 19:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/09/25 23:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/09/25 23:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/09/25 23:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/09/25 23:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*91*		*70 - 130*	*05/07/25 08:08*	*05/09/25 23:47*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 08:08*	*05/09/25 23:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		9.92		mg/Kg			05/07/25 21:20	1

Client Sample ID: CS 101

Lab Sample ID: 890-8112-8
Matrix: Solid
Date Collected: 05/05/25 10:31
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
Ethylbenzene	<0.00199	U *+	0.00199		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 09:10	05/07/25 20:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 09:10	05/07/25 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 20:13*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 20:13*	*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			05/07/25 20:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 00:31	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 101

Lab Sample ID: 890-8112-8
Matrix: Solid
Date Collected: 05/05/25 10:31
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 00:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 00:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/07/25 08:08*	*05/10/25 00:31*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 08:08*	*05/10/25 00:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**402**		10.0		mg/Kg			05/07/25 21:27	1

Client Sample ID: CS 102

Lab Sample ID: 890-8112-9
Matrix: Solid
Date Collected: 05/05/25 10:34
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:37	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 21:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/07/25 09:10*	*05/07/25 21:37*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/07/25 09:10*	*05/07/25 21:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/07/25 21:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 00:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 00:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 00:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 08:08*	*05/10/25 00:46*	*1*
o-Terphenyl	*78*		*70 - 130*	*05/07/25 08:08*	*05/10/25 00:46*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 102

Lab Sample ID: 890-8112-9
Matrix: Solid
Date Collected: 05/05/25 10:34
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	467		9.94		mg/Kg			05/07/25 21:34	1

Client Sample ID: CS 103

Lab Sample ID: 890-8112-10
Matrix: Solid
Date Collected: 05/05/25 10:32
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 21:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 21:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/07/25 09:10*	*05/07/25 21:58*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/07/25 09:10*	*05/07/25 21:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/07/25 21:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/10/25 01:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 01:01	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 01:01	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 01:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:01*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	385		9.92		mg/Kg			05/07/25 21:42	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 105

Lab Sample ID: 890-8112-11
Matrix: Solid
Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 22:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/25 09:10	05/07/25 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/07/25 09:10*	*05/07/25 22:18*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/07/25 09:10*	*05/07/25 22:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/07/25 22:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/10/25 01:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 01:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 01:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 01:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:16*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.8**		10.0		mg/Kg			05/07/25 21:49	1

Client Sample ID: CS 106

Lab Sample ID: 890-8112-12
Matrix: Solid
Date Collected: 05/05/25 10:46
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
Ethylbenzene	<0.00201	U *+	0.00201		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 09:10	05/07/25 22:39	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 09:10	05/07/25 22:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 22:39*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 106

Lab Sample ID: 890-8112-12
Matrix: Solid
Date Collected: 05/05/25 10:46
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/07/25 09:10*	*05/07/25 22:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/07/25 22:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/10/25 01:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/07/25 08:08	05/10/25 01:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/07/25 08:08	05/10/25 01:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/07/25 08:08	05/10/25 01:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:30*	*1*
o-Terphenyl	*77*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**182**		10.0	mg/Kg			05/07/25 21:56	1

Client Sample ID: CS 107

Lab Sample ID: 890-8112-13
Matrix: Solid
Date Collected: 05/05/25 10:48
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/07/25 09:10	05/07/25 23:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		05/07/25 09:10	05/07/25 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:00*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/07/25 23:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/10/25 01:46	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 107

Lab Sample ID: 890-8112-13
Matrix: Solid
Date Collected: 05/05/25 10:48
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 01:46	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 01:46	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:46*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 01:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**223**		10.1		mg/Kg			05/07/25 22:18	1

Client Sample ID: CS 108

Lab Sample ID: 890-8112-14
Matrix: Solid
Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 23:20	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/07/25 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:20*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/07/25 23:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 02:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 02:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 02:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:00*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:00*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 108

Lab Sample ID: 890-8112-14
Matrix: Solid
Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	265		9.94		mg/Kg			05/07/25 22:26	1

Client Sample ID: CS 109

Lab Sample ID: 890-8112-15
Matrix: Solid
Date Collected: 05/05/25 10:40
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
Ethylbenzene	<0.00198	U *+	0.00198		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/25 09:10	05/07/25 23:41	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/25 09:10	05/07/25 23:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:41*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/07/25 09:10*	*05/07/25 23:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/07/25 23:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/10/25 02:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 02:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 02:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 02:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:16*	*1*
o-Terphenyl	*77*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	539		9.98		mg/Kg			05/07/25 22:48	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 110

Lab Sample ID: 890-8112-16
Matrix: Solid
Date Collected: 05/05/25 10:45
Date Received: 05/06/25 11:00
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:01	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 09:10	05/08/25 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:01*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/08/25 00:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 02:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 02:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 02:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:30*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		9.92		mg/Kg			05/07/25 22:55	1

Client Sample ID: CS 121

Lab Sample ID: 890-8112-17
Matrix: Solid
Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
Ethylbenzene	<0.00200	U *+	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/08/25 00:22	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/07/25 09:10	05/08/25 00:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:22*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 121

Lab Sample ID: 890-8112-17
Matrix: Solid
Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/08/25 00:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/10/25 02:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/07/25 08:08	05/10/25 02:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/07/25 08:08	05/10/25 02:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/07/25 08:08	05/10/25 02:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:59*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 08:08*	*05/10/25 02:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**145**		10.0	mg/Kg			05/07/25 23:03	1

Client Sample ID: CS 122

Lab Sample ID: 890-8112-18
Matrix: Solid
Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
Ethylbenzene	<0.00199	U *+	0.00199	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/07/25 09:10	05/08/25 00:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/07/25 09:10	05/08/25 00:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:42*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*05/07/25 09:10*	*05/08/25 00:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/08/25 00:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/10/25 03:15	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 122

Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00
Sample Depth: 2

Lab Sample ID: 890-8112-18

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 03:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 03:15	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/07/25 08:08	05/10/25 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:15*	*1*
o-Terphenyl	*79*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		9.94		mg/Kg			05/07/25 23:10	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-57822-A-1-B MS	Matrix Spike	108	93										
880-57822-A-1-C MSD	Matrix Spike Duplicate	120	95										
890-8112-1	CS 85	101	86										
890-8112-2	CS 88	98	83										
890-8112-3	CS 89	96	98										
890-8112-4	CS 95	98	99										
890-8112-5	CS 96	91	97										
890-8112-6	CS 99	96	95										
890-8112-7	CS 100	95	98										
890-8112-8	CS 101	95	95										
890-8112-9	CS 102	96	86										
890-8112-10	CS 103	94	94										
890-8112-11	CS 105	93	93										
890-8112-12	CS 106	98	84										
890-8112-13	CS 107	93	98										
890-8112-14	CS 108	91	95										
890-8112-15	CS 109	97	95										
890-8112-16	CS 110	94	90										
890-8112-17	CS 121	97	99										
890-8112-18	CS 122	114	86										
LCS 880-109606/1-A	Lab Control Sample	116	96										
LCSD 880-109606/2-A	Lab Control Sample Dup	111	107										
MB 880-109606/5-A	Method Blank	88	93										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-8098-A-1-B MS	Matrix Spike	91	78										
890-8098-A-1-C MSD	Matrix Spike Duplicate	91	79										
890-8112-1	CS 85	96	88										
890-8112-2	CS 88	87	80										
890-8112-3	CS 89	87	79										
890-8112-4	CS 95	88	82										
890-8112-5	CS 96	86	80										
890-8112-6	CS 99	86	78										
890-8112-7	CS 100	91	82										
890-8112-7 MS	CS 100	97	80										
890-8112-7 MSD	CS 100	94	80										
890-8112-8	CS 101	91	82										
890-8112-9	CS 102	88	78										
890-8112-10	CS 103	90	80										
890-8112-11	CS 105	90	80										
890-8112-12	CS 106	85	77										

Surrogate Summary

Client: Ensolum Job ID: 890-8112-1
Project/Site: Flatland FNR Frac line SDG: 03D383600

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-8112-13	CS 107	88	80										
890-8112-14	CS 108	90	80										
890-8112-15	CS 109	85	77										
890-8112-16	CS 110	92	82										
890-8112-17	CS 121	89	80										
890-8112-18	CS 122	88	79										
LCS 880-109589/2-A	Lab Control Sample	153 S1+	128										
LCS 880-109590/2-A	Lab Control Sample	107	90										
LCSD 880-109589/3-A	Lab Control Sample Dup	160 S1+	133 S1+										
LCSD 880-109590/3-A	Lab Control Sample Dup	109	92										
MB 880-109589/1-A	Method Blank	140 S1+	124										
MB 880-109590/1-A	Method Blank	122	108										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109606/5-A
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109606

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 09:10	05/07/25 16:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 09:10	05/07/25 16:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/07/25 09:10*	*05/07/25 16:47*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*05/07/25 09:10*	*05/07/25 16:47*	*1*

Lab Sample ID: LCS 880-109606/1-A
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109606

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1132		mg/Kg		113	70 - 130		
Toluene			0.100	0.1010		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.1368	*+	mg/Kg		137	70 - 130		
m-Xylene & p-Xylene			0.200	0.2597		mg/Kg		130	70 - 130		
o-Xylene			0.100	0.1225		mg/Kg		123	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-109606/2-A
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109606

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1037		mg/Kg		104	70 - 130	9	35
Toluene			0.100	0.08956		mg/Kg		90	70 - 130	12	35
Ethylbenzene			0.100	0.09820		mg/Kg		98	70 - 130	33	35
m-Xylene & p-Xylene			0.200	0.2298		mg/Kg		115	70 - 130	12	35
o-Xylene			0.100	0.1096		mg/Kg		110	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-57822-A-1-B MS
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08502		mg/Kg		85	70 - 130		
Toluene	<0.00200	U	0.100	0.07429		mg/Kg		74	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-57822-A-1-B MS
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U *+	0.100	0.09924		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1840		mg/Kg		92	70 - 130
o-Xylene	<0.00200	U	0.100	0.08757		mg/Kg		88	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-57822-A-1-C MSD
Matrix: Solid
Analysis Batch: 109657

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09340		mg/Kg		93	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.08364		mg/Kg		84	70 - 130	12	35
Ethylbenzene	<0.00200	U *+	0.100	0.09233		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2139		mg/Kg		107	70 - 130	15	35
o-Xylene	<0.00200	U	0.100	0.1037		mg/Kg		104	70 - 130	17	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109589/1-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109589

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*05/07/25 07:57*	*05/09/25 11:15*	*1*
o-Terphenyl	*124*		*70 - 130*	*05/07/25 07:57*	*05/09/25 11:15*	*1*

Lab Sample ID: LCS 880-109589/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109589

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	936.0		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)			1000	916.6		mg/Kg		92	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109589/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109589

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	153	S1+	70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: LCSD 880-109589/3-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109589

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	984.8		mg/Kg		98	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	981.6		mg/Kg		98	70 - 130	7	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	160	S1+	70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: 890-8098-A-1-B MS
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 109589

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1057		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1009		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	78		70 - 130

Lab Sample ID: 890-8098-A-1-C MSD
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 109589

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1058		mg/Kg		106	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1029		mg/Kg		100	70 - 130	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	91		70 - 130
o-Terphenyl	79		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-109590/1-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109590

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 23:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 23:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/07/25 07:57*	*05/09/25 23:03*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/07/25 07:57*	*05/09/25 23:03*	*1*

Lab Sample ID: LCS 880-109590/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109590

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	951.2		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	997.6		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-109590/3-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109590

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	924.4		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	984.3		mg/Kg		98	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*92*		*70 - 130*

Lab Sample ID: 890-8112-7 MS
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: CS 100
Prep Type: Total/NA
Prep Batch: 109590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	1063		mg/Kg		107	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	994	1019		mg/Kg		101	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8112-7 MS
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: CS 100
Prep Type: Total/NA
Prep Batch: 109590

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: 890-8112-7 MSD
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: CS 100
Prep Type: Total/NA
Prep Batch: 109590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	994	1079		mg/Kg		109	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	994	1060		mg/Kg		105	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	80		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109608/1-A
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/07/25 14:45	1

Lab Sample ID: LCS 880-109608/2-A
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	249.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-109608/3-A
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	251.3		mg/Kg		101	90 - 110	1	20

Lab Sample ID: 890-8098-A-6-D MS
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	119		250	376.3		mg/Kg		103	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8098-A-6-E MSD
Matrix: Solid
Analysis Batch: 109635

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	119		250	376.2		mg/Kg		103	90 - 110	0	20

Lab Sample ID: MB 880-109649/1-A
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/07/25 19:51	1

Lab Sample ID: LCS 880-109649/2-A
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	261.2		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-109649/3-A
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	262.7		mg/Kg		105	90 - 110	1	20

Lab Sample ID: 890-8112-2 MS
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: CS 88
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	191	F1	249	471.0	F1	mg/Kg		113	90 - 110		

Lab Sample ID: 890-8112-2 MSD
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: CS 88
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	191	F1	249	465.8		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 890-8112-12 MS
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: CS 106
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	182		251	431.2		mg/Kg		99	90 - 110		

Lab Sample ID: 890-8112-12 MSD
Matrix: Solid
Analysis Batch: 109658

Client Sample ID: CS 106
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	182		251	431.2		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

GC VOA

Prep Batch: 109606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	5035	
890-8112-2	CS 88	Total/NA	Solid	5035	
890-8112-3	CS 89	Total/NA	Solid	5035	
890-8112-4	CS 95	Total/NA	Solid	5035	
890-8112-5	CS 96	Total/NA	Solid	5035	
890-8112-6	CS 99	Total/NA	Solid	5035	
890-8112-7	CS 100	Total/NA	Solid	5035	
890-8112-8	CS 101	Total/NA	Solid	5035	
890-8112-9	CS 102	Total/NA	Solid	5035	
890-8112-10	CS 103	Total/NA	Solid	5035	
890-8112-11	CS 105	Total/NA	Solid	5035	
890-8112-12	CS 106	Total/NA	Solid	5035	
890-8112-13	CS 107	Total/NA	Solid	5035	
890-8112-14	CS 108	Total/NA	Solid	5035	
890-8112-15	CS 109	Total/NA	Solid	5035	
890-8112-16	CS 110	Total/NA	Solid	5035	
890-8112-17	CS 121	Total/NA	Solid	5035	
890-8112-18	CS 122	Total/NA	Solid	5035	
MB 880-109606/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109606/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109606/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57822-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-57822-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 109657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	8021B	109606
890-8112-2	CS 88	Total/NA	Solid	8021B	109606
890-8112-3	CS 89	Total/NA	Solid	8021B	109606
890-8112-4	CS 95	Total/NA	Solid	8021B	109606
890-8112-5	CS 96	Total/NA	Solid	8021B	109606
890-8112-6	CS 99	Total/NA	Solid	8021B	109606
890-8112-7	CS 100	Total/NA	Solid	8021B	109606
890-8112-8	CS 101	Total/NA	Solid	8021B	109606
890-8112-9	CS 102	Total/NA	Solid	8021B	109606
890-8112-10	CS 103	Total/NA	Solid	8021B	109606
890-8112-11	CS 105	Total/NA	Solid	8021B	109606
890-8112-12	CS 106	Total/NA	Solid	8021B	109606
890-8112-13	CS 107	Total/NA	Solid	8021B	109606
890-8112-14	CS 108	Total/NA	Solid	8021B	109606
890-8112-15	CS 109	Total/NA	Solid	8021B	109606
890-8112-16	CS 110	Total/NA	Solid	8021B	109606
890-8112-17	CS 121	Total/NA	Solid	8021B	109606
890-8112-18	CS 122	Total/NA	Solid	8021B	109606
MB 880-109606/5-A	Method Blank	Total/NA	Solid	8021B	109606
LCS 880-109606/1-A	Lab Control Sample	Total/NA	Solid	8021B	109606
LCSD 880-109606/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109606
880-57822-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	109606
880-57822-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	109606

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

GC VOA

Analysis Batch: 109751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	Total BTEX	
890-8112-2	CS 88	Total/NA	Solid	Total BTEX	
890-8112-3	CS 89	Total/NA	Solid	Total BTEX	
890-8112-4	CS 95	Total/NA	Solid	Total BTEX	
890-8112-5	CS 96	Total/NA	Solid	Total BTEX	
890-8112-6	CS 99	Total/NA	Solid	Total BTEX	
890-8112-7	CS 100	Total/NA	Solid	Total BTEX	
890-8112-8	CS 101	Total/NA	Solid	Total BTEX	
890-8112-9	CS 102	Total/NA	Solid	Total BTEX	
890-8112-10	CS 103	Total/NA	Solid	Total BTEX	
890-8112-11	CS 105	Total/NA	Solid	Total BTEX	
890-8112-12	CS 106	Total/NA	Solid	Total BTEX	
890-8112-13	CS 107	Total/NA	Solid	Total BTEX	
890-8112-14	CS 108	Total/NA	Solid	Total BTEX	
890-8112-15	CS 109	Total/NA	Solid	Total BTEX	
890-8112-16	CS 110	Total/NA	Solid	Total BTEX	
890-8112-17	CS 121	Total/NA	Solid	Total BTEX	
890-8112-18	CS 122	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	8015NM Prep	
890-8112-2	CS 88	Total/NA	Solid	8015NM Prep	
890-8112-3	CS 89	Total/NA	Solid	8015NM Prep	
890-8112-4	CS 95	Total/NA	Solid	8015NM Prep	
890-8112-5	CS 96	Total/NA	Solid	8015NM Prep	
890-8112-6	CS 99	Total/NA	Solid	8015NM Prep	
MB 880-109589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8098-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8098-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 109590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-7	CS 100	Total/NA	Solid	8015NM Prep	
890-8112-8	CS 101	Total/NA	Solid	8015NM Prep	
890-8112-9	CS 102	Total/NA	Solid	8015NM Prep	
890-8112-10	CS 103	Total/NA	Solid	8015NM Prep	
890-8112-11	CS 105	Total/NA	Solid	8015NM Prep	
890-8112-12	CS 106	Total/NA	Solid	8015NM Prep	
890-8112-13	CS 107	Total/NA	Solid	8015NM Prep	
890-8112-14	CS 108	Total/NA	Solid	8015NM Prep	
890-8112-15	CS 109	Total/NA	Solid	8015NM Prep	
890-8112-16	CS 110	Total/NA	Solid	8015NM Prep	
890-8112-17	CS 121	Total/NA	Solid	8015NM Prep	
890-8112-18	CS 122	Total/NA	Solid	8015NM Prep	
MB 880-109590/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109590/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

GC Semi VOA (Continued)

Prep Batch: 109590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-109590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8112-7 MS	CS 100	Total/NA	Solid	8015NM Prep	
890-8112-7 MSD	CS 100	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	8015B NM	109589
890-8112-2	CS 88	Total/NA	Solid	8015B NM	109589
890-8112-3	CS 89	Total/NA	Solid	8015B NM	109589
890-8112-4	CS 95	Total/NA	Solid	8015B NM	109589
890-8112-5	CS 96	Total/NA	Solid	8015B NM	109589
890-8112-6	CS 99	Total/NA	Solid	8015B NM	109589
890-8112-7	CS 100	Total/NA	Solid	8015B NM	109590
890-8112-8	CS 101	Total/NA	Solid	8015B NM	109590
890-8112-9	CS 102	Total/NA	Solid	8015B NM	109590
890-8112-10	CS 103	Total/NA	Solid	8015B NM	109590
890-8112-11	CS 105	Total/NA	Solid	8015B NM	109590
890-8112-12	CS 106	Total/NA	Solid	8015B NM	109590
890-8112-13	CS 107	Total/NA	Solid	8015B NM	109590
890-8112-14	CS 108	Total/NA	Solid	8015B NM	109590
890-8112-15	CS 109	Total/NA	Solid	8015B NM	109590
890-8112-16	CS 110	Total/NA	Solid	8015B NM	109590
890-8112-17	CS 121	Total/NA	Solid	8015B NM	109590
890-8112-18	CS 122	Total/NA	Solid	8015B NM	109590
MB 880-109589/1-A	Method Blank	Total/NA	Solid	8015B NM	109589
MB 880-109590/1-A	Method Blank	Total/NA	Solid	8015B NM	109590
LCS 880-109589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109589
LCS 880-109590/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109590
LCSD 880-109589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109589
LCSD 880-109590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109590
890-8098-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	109589
890-8098-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	109589
890-8112-7 MS	CS 100	Total/NA	Solid	8015B NM	109590
890-8112-7 MSD	CS 100	Total/NA	Solid	8015B NM	109590

Analysis Batch: 109941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Total/NA	Solid	8015 NM	
890-8112-2	CS 88	Total/NA	Solid	8015 NM	
890-8112-3	CS 89	Total/NA	Solid	8015 NM	
890-8112-4	CS 95	Total/NA	Solid	8015 NM	
890-8112-5	CS 96	Total/NA	Solid	8015 NM	
890-8112-6	CS 99	Total/NA	Solid	8015 NM	
890-8112-7	CS 100	Total/NA	Solid	8015 NM	
890-8112-8	CS 101	Total/NA	Solid	8015 NM	
890-8112-9	CS 102	Total/NA	Solid	8015 NM	
890-8112-10	CS 103	Total/NA	Solid	8015 NM	
890-8112-11	CS 105	Total/NA	Solid	8015 NM	
890-8112-12	CS 106	Total/NA	Solid	8015 NM	
890-8112-13	CS 107	Total/NA	Solid	8015 NM	
890-8112-14	CS 108	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

GC Semi VOA (Continued)

Analysis Batch: 109941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-15	CS 109	Total/NA	Solid	8015 NM	
890-8112-16	CS 110	Total/NA	Solid	8015 NM	
890-8112-17	CS 121	Total/NA	Solid	8015 NM	
890-8112-18	CS 122	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 109608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Soluble	Solid	DI Leach	
MB 880-109608/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109608/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109608/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8098-A-6-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8098-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 109635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-1	CS 85	Soluble	Solid	300.0	109608
MB 880-109608/1-A	Method Blank	Soluble	Solid	300.0	109608
LCS 880-109608/2-A	Lab Control Sample	Soluble	Solid	300.0	109608
LCSD 880-109608/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109608
890-8098-A-6-D MS	Matrix Spike	Soluble	Solid	300.0	109608
890-8098-A-6-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	109608

Leach Batch: 109649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-2	CS 88	Soluble	Solid	DI Leach	
890-8112-3	CS 89	Soluble	Solid	DI Leach	
890-8112-4	CS 95	Soluble	Solid	DI Leach	
890-8112-5	CS 96	Soluble	Solid	DI Leach	
890-8112-6	CS 99	Soluble	Solid	DI Leach	
890-8112-7	CS 100	Soluble	Solid	DI Leach	
890-8112-8	CS 101	Soluble	Solid	DI Leach	
890-8112-9	CS 102	Soluble	Solid	DI Leach	
890-8112-10	CS 103	Soluble	Solid	DI Leach	
890-8112-11	CS 105	Soluble	Solid	DI Leach	
890-8112-12	CS 106	Soluble	Solid	DI Leach	
890-8112-13	CS 107	Soluble	Solid	DI Leach	
890-8112-14	CS 108	Soluble	Solid	DI Leach	
890-8112-15	CS 109	Soluble	Solid	DI Leach	
890-8112-16	CS 110	Soluble	Solid	DI Leach	
890-8112-17	CS 121	Soluble	Solid	DI Leach	
890-8112-18	CS 122	Soluble	Solid	DI Leach	
MB 880-109649/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109649/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109649/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8112-2 MS	CS 88	Soluble	Solid	DI Leach	
890-8112-2 MSD	CS 88	Soluble	Solid	DI Leach	
890-8112-12 MS	CS 106	Soluble	Solid	DI Leach	
890-8112-12 MSD	CS 106	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

HPLC/IC

Analysis Batch: 109658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8112-2	CS 88	Soluble	Solid	300.0	109649
890-8112-3	CS 89	Soluble	Solid	300.0	109649
890-8112-4	CS 95	Soluble	Solid	300.0	109649
890-8112-5	CS 96	Soluble	Solid	300.0	109649
890-8112-6	CS 99	Soluble	Solid	300.0	109649
890-8112-7	CS 100	Soluble	Solid	300.0	109649
890-8112-8	CS 101	Soluble	Solid	300.0	109649
890-8112-9	CS 102	Soluble	Solid	300.0	109649
890-8112-10	CS 103	Soluble	Solid	300.0	109649
890-8112-11	CS 105	Soluble	Solid	300.0	109649
890-8112-12	CS 106	Soluble	Solid	300.0	109649
890-8112-13	CS 107	Soluble	Solid	300.0	109649
890-8112-14	CS 108	Soluble	Solid	300.0	109649
890-8112-15	CS 109	Soluble	Solid	300.0	109649
890-8112-16	CS 110	Soluble	Solid	300.0	109649
890-8112-17	CS 121	Soluble	Solid	300.0	109649
890-8112-18	CS 122	Soluble	Solid	300.0	109649
MB 880-109649/1-A	Method Blank	Soluble	Solid	300.0	109649
LCS 880-109649/2-A	Lab Control Sample	Soluble	Solid	300.0	109649
LCSD 880-109649/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109649
890-8112-2 MS	CS 88	Soluble	Solid	300.0	109649
890-8112-2 MSD	CS 88	Soluble	Solid	300.0	109649
890-8112-12 MS	CS 106	Soluble	Solid	300.0	109649
890-8112-12 MSD	CS 106	Soluble	Solid	300.0	109649

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 85

Lab Sample ID: 890-8112-1
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 17:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 20:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 20:36	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109608	05/07/25 09:16	SA	EET MID
Soluble	Analysis	300.0		1			109635	05/07/25 17:21	CH	EET MID

Client Sample ID: CS 88

Lab Sample ID: 890-8112-2
Matrix: Solid
Date Collected: 05/05/25 10:23
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 18:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 20:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 20:50	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:13	CH	EET MID

Client Sample ID: CS 89

Lab Sample ID: 890-8112-3
Matrix: Solid
Date Collected: 05/05/25 10:26
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 18:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 18:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 21:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 21:06	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:35	CH	EET MID

Client Sample ID: CS 95

Lab Sample ID: 890-8112-4
Matrix: Solid
Date Collected: 05/05/25 10:39
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 18:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 18:51	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 95

Lab Sample ID: 890-8112-4
Matrix: Solid
Date Collected: 05/05/25 10:39
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109941	05/09/25 21:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 21:20	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:43	CH	EET MID

Client Sample ID: CS 96

Lab Sample ID: 890-8112-5
Matrix: Solid
Date Collected: 05/05/25 10:38
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 19:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 19:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 21:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 21:35	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:50	CH	EET MID

Client Sample ID: CS 99

Lab Sample ID: 890-8112-6
Matrix: Solid
Date Collected: 05/05/25 10:28
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 19:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 19:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 21:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109589	05/07/25 08:05	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 21:50	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 20:57	CH	EET MID

Client Sample ID: CS 100

Lab Sample ID: 890-8112-7
Matrix: Solid
Date Collected: 05/05/25 10:30
Date Received: 05/06/25 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 19:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 19:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/09/25 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/09/25 23:47	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 100

Date Collected: 05/05/25 10:30
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:20	CH	EET MID

Client Sample ID: CS 101

Date Collected: 05/05/25 10:31
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 20:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 20:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 00:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 00:31	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:27	CH	EET MID

Client Sample ID: CS 102

Date Collected: 05/05/25 10:34
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 21:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 21:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 00:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 00:46	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:34	CH	EET MID

Client Sample ID: CS 103

Date Collected: 05/05/25 10:32
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 21:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 21:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 01:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 01:01	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:42	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 105

Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 22:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 22:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 01:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 01:16	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:49	CH	EET MID

Client Sample ID: CS 106

Date Collected: 05/05/25 10:46
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 22:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 22:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 01:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 01:30	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 21:56	CH	EET MID

Client Sample ID: CS 107

Date Collected: 05/05/25 10:48
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 23:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 01:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 01:46	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 22:18	CH	EET MID

Client Sample ID: CS 108

Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 23:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 23:20	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 108

Date Collected: 05/05/25 10:42
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			109941	05/10/25 02:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 02:00	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 22:26	CH	EET MID

Client Sample ID: CS 109

Date Collected: 05/05/25 10:40
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/07/25 23:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/07/25 23:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 02:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 02:16	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 22:48	CH	EET MID

Client Sample ID: CS 110

Date Collected: 05/05/25 10:45
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/08/25 00:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/08/25 00:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 02:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 02:30	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 22:55	CH	EET MID

Client Sample ID: CS 121

Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/08/25 00:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/08/25 00:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 02:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 02:59	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Client Sample ID: CS 121

Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 23:03	CH	EET MID

Client Sample ID: CS 122

Date Collected: 05/05/25 10:25
Date Received: 05/06/25 11:00

Lab Sample ID: 890-8112-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	109606	05/07/25 09:10	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	109657	05/08/25 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			109751	05/08/25 00:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			109941	05/10/25 03:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	109590	05/07/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	109892	05/10/25 03:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	109649	05/07/25 11:41	SA	EET MID
Soluble	Analysis	300.0		1			109658	05/07/25 23:10	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8112-1
SDG: 03D383600

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8112-1	CS 85	Solid	05/05/25 10:23	05/06/25 11:00	2
890-8112-2	CS 88	Solid	05/05/25 10:23	05/06/25 11:00	2
890-8112-3	CS 89	Solid	05/05/25 10:26	05/06/25 11:00	2
890-8112-4	CS 95	Solid	05/05/25 10:39	05/06/25 11:00	1
890-8112-5	CS 96	Solid	05/05/25 10:38	05/06/25 11:00	1
890-8112-6	CS 99	Solid	05/05/25 10:28	05/06/25 11:00	2
890-8112-7	CS 100	Solid	05/05/25 10:30	05/06/25 11:00	2
890-8112-8	CS 101	Solid	05/05/25 10:31	05/06/25 11:00	1
890-8112-9	CS 102	Solid	05/05/25 10:34	05/06/25 11:00	1
890-8112-10	CS 103	Solid	05/05/25 10:32	05/06/25 11:00	1
890-8112-11	CS 105	Solid	05/05/25 10:42	05/06/25 11:00	1
890-8112-12	CS 106	Solid	05/05/25 10:46	05/06/25 11:00	1
890-8112-13	CS 107	Solid	05/05/25 10:48	05/06/25 11:00	1
890-8112-14	CS 108	Solid	05/05/25 10:42	05/06/25 11:00	1
890-8112-15	CS 109	Solid	05/05/25 10:40	05/06/25 11:00	1
890-8112-16	CS 110	Solid	05/05/25 10:45	05/06/25 11:00	1
890-8112-17	CS 121	Solid	05/05/25 10:25	05/06/25 11:00	2
890-8112-18	CS 122	Solid	05/05/25 10:25	05/06/25 11:00	2

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5/12/2025

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-8112 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	ATTN : Hadlie Green
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com, jgonzalez@ensolum.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D383600	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Higinio Gonzalez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	NM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6
Total Containers:		Corrected Temperature:	4.4

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides (EPA 3000.0)	TPH 8015	BTEX 8021	Sample Comments
CS 85	S	5/5/2025	1023	2'	C	1	X	X	X	
CS 88	S	5/5/2025	1023	2'	C	1	X	X	X	
CS 89	S	5/5/2025	1026	2'	C	1	X	X	X	
CS 95	S	5/5/2025	1039	1'	C	1	X	X	X	
CS 96	S	5/5/2025	1038	1'	C	1	X	X	X	
CS 99	S	5/5/2025	1028	2'	C	1	X	X	X	
CS 100	S	5/5/2025	1030	2'	C	1	X	X	X	
CS 101	S	5/5/2025	1031	1'	C	1	X	X	X	
CS 102	S	5/5/2025	1034	1'	C	1	X	X	X	
CS 103	S	5/5/2025	1032	1'	C	1	X	X	X	

Total 200.7 / 6010 **200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11:00 5/6	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	ATTN : Hadlie Green
Company Name:	Ensolum	Company Name:	Ensolum
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com, jgonzalez@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D383600	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Higinio Gonzalez	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TNM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6	
Total Containers:		Corrected Temperature:	4.4	

ANALYSIS REQUEST

Preservative Codes

None: NO DI Water: H_2O
~~Cool: Cool~~ ~~MeOH: Me~~
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Chlorides (EPA 3000.0)	TPH 8015	BTEX 8021	Sample Comments
CS105	S	5/5/2025	1042	1'	C	1	X	X	X	
CS106	S	5/5/2025	1046	1'	C	1	X	X	X	
CS107	S	5/5/2025	1048	1'	C	1	X	X	X	
CS108	S	5/5/2025	1042	1'	C	1	X	X	X	
CS109	S	5/5/2025	1040	1'	C	1	X	X	X	
CS110	S	5/5/2025	1045	1'	C	1	X	X	X	
CS121	S	5/5/2025	1026	2'	C	1	X	X	X	
CS122	S	5/5/2025	1025	2'	C	1	X	X	X	
	S	5/5/2025			C	1	X	X	X	
	S	5/5/2025			C	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		11:00 5/6	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5057.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8112-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/12/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Flatland FNR Frac line	Project #: 89000145			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 85 (890-8112-1)	5/5/25	10:23 Mountain	G	Solid			X	X	X	X	X	1	
CS 88 (890-8112-2)	5/5/25	10:23 Mountain	G	Solid			X	X	X	X	X	1	
CS 89 (890-8112-3)	5/5/25	10:26 Mountain	G	Solid			X	X	X	X	X	1	
CS 95 (890-8112-4)	5/5/25	10:39 Mountain	G	Solid			X	X	X	X	X	1	
CS 96 (890-8112-5)	5/5/25	10:38 Mountain	G	Solid			X	X	X	X	X	1	
CS 99 (890-8112-6)	5/5/25	10:28 Mountain	G	Solid			X	X	X	X	X	1	
CS 100 (890-8112-7)	5/5/25	10:30 Mountain	G	Solid			X	X	X	X	X	1	
CS 101 (890-8112-8)	5/5/25	10:31 Mountain	G	Solid			X	X	X	X	X	1	
CS 102 (890-8112-9)	5/5/25	10:34 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	5/6 1630				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

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5/12/2025
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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5057.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8112-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/12/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Flatland FNR Frac line	Project #: 89000145			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 103 (890-8112-10)	5/5/25	10:32 Mountain	G	Solid			X	X	X	X	X	1	
CS 105 (890-8112-11)	5/5/25	10:42 Mountain	G	Solid			X	X	X	X	X	1	
CS 106 (890-8112-12)	5/5/25	10:46 Mountain	G	Solid			X	X	X	X	X	1	
CS 107 (890-8112-13)	5/5/25	10:48 Mountain	G	Solid			X	X	X	X	X	1	
CS 108 (890-8112-14)	5/5/25	10:42 Mountain	G	Solid			X	X	X	X	X	1	
CS 109 (890-8112-15)	5/5/25	10:40 Mountain	G	Solid			X	X	X	X	X	1	
CS 110 (890-8112-16)	5/5/25	10:45 Mountain	G	Solid			X	X	X	X	X	1	
CS 121 (890-8112-17)	5/5/25	10:25 Mountain	G	Solid			X	X	X	X	X	1	
CS 122 (890-8112-18)	5/5/25	10:25 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by: Bruny	Date/Time: 5/6 1630	Company	Received by: EA	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8112-1
SDG Number: 03D383600

Login Number: 8112
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8112-1
SDG Number: 03D383600

Login Number: 8112
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/07/25 07:47 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/12/2025 10:19:13 AM

JOB DESCRIPTION

Flatland FNR FAC Line
Eddy County

JOB NUMBER

880-57839-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

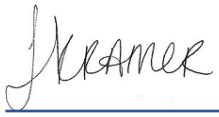
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/12/2025 10:19:13 AM

Authorized for release by
Jessica Kramer, Project Manager
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(432)704-5440

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Definitions/Glossary

Client: Ensolum Job ID: 880-57839-1
Project/Site: Flatland FNR FAC Line SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-57839-1
Project: Flatland FNR FAC Line

Job ID: 880-57839-1 Eurofins Midland

Job Narrative
880-57839-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/7/2025 1:51 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 4.7°C.

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: CS199 (880-57839-12) and (CCV 880-109696/20). 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.

Diesel Range Organics
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-109662 and analytical batch 880-109714 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-109662 and analytical batch 880-109714 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS01

Date Collected: 05/06/25 10:48
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:50	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 15:35	05/08/25 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*05/07/25 15:35*	*05/08/25 11:50*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/07/25 15:35*	*05/08/25 11:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/08/25 11:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 03:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 03:44	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 03:44	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:44*	*1*
o-Terphenyl	*84*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**264**		10.1		mg/Kg			05/08/25 10:26	1

Client Sample ID: CS02

Date Collected: 05/06/25 10:50
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 12:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 15:35	05/08/25 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:10*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS02

Date Collected: 05/06/25 10:50
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/08/25 12:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 03:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 03:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 03:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:59*	*1*
o-Terphenyl	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 03:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**327**		10.0		mg/Kg			05/08/25 10:48	1

Client Sample ID: CS03

Date Collected: 05/06/25 10:52
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 12:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:31*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/08/25 12:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 04:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:14	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS03

Date Collected: 05/06/25 10:52
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:14*	*1*
o-Terphenyl	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.0**		10.1		mg/Kg			05/08/25 10:55	1

Client Sample ID: CS04

Date Collected: 05/06/25 10:54
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 12:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:51*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*05/07/25 15:35*	*05/08/25 12:51*	*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			05/08/25 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 04:29	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 04:29	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 04:29	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:29*	*1*
o-Terphenyl	*85*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**253**		9.96		mg/Kg			05/08/25 11:03	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS05

Lab Sample ID: 880-57839-5
Date Collected: 05/06/25 10:56
Matrix: Solid
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 13:12	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:12*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:12*	*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			05/08/25 13:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/10/25 04:43	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 04:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 04:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 08:08	05/10/25 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:43*	*1*
o-Terphenyl	*83*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**208**		9.94		mg/Kg			05/08/25 11:10	1

Client Sample ID: CS06

Lab Sample ID: 880-57839-6
Date Collected: 05/06/25 10:58
Matrix: Solid
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/07/25 15:35	05/08/25 13:32	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/07/25 15:35	05/08/25 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:32*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:32*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS06

Lab Sample ID: 880-57839-6
Date Collected: 05/06/25 10:58
Matrix: Solid
Date Received: 05/07/25 13:51

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/08/25 13:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/10/25 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 08:08	05/10/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:59*	*1*
o-Terphenyl	*84*		*70 - 130*	*05/07/25 08:08*	*05/10/25 04:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		10.0		mg/Kg			05/08/25 11:32	1

Client Sample ID: CS07

Lab Sample ID: 880-57839-7
Date Collected: 05/06/25 11:00
Matrix: Solid
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 13:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:52*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*05/07/25 15:35*	*05/08/25 13:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/08/25 13:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/10/25 05:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 05:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 05:12	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS07

Lab Sample ID: 880-57839-7
Matrix: Solid
Date Collected: 05/06/25 11:00
Date Received: 05/07/25 13:51

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 08:08	05/10/25 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*05/07/25 08:08*	*05/10/25 05:12*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/07/25 08:08*	*05/10/25 05:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**178**		9.98		mg/Kg			05/08/25 11:40	1

Client Sample ID: CS08

Lab Sample ID: 880-57839-8
Matrix: Solid
Date Collected: 05/06/25 11:02
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 14:13	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/25 15:35	05/08/25 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:13*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/08/25 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/08/25 21:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/07/25 14:33	05/08/25 21:12	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/07/25 14:33	05/08/25 21:12	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/07/25 14:33	05/08/25 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/07/25 14:33*	*05/08/25 21:12*	*1*
o-Terphenyl	*83*		*70 - 130*	*05/07/25 14:33*	*05/08/25 21:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**95.3**		9.96		mg/Kg			05/08/25 11:47	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS09

Lab Sample ID: 880-57839-9
Date Collected: 05/06/25 11:04
Matrix: Solid
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:33*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:33*	*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			05/08/25 14:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/08/25 21:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/07/25 14:33	05/08/25 21:56	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/07/25 14:33	05/08/25 21:56	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/07/25 14:33	05/08/25 21:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/07/25 14:33*	*05/08/25 21:56*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 14:33*	*05/08/25 21:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**188**		10.0		mg/Kg			05/08/25 11:54	1

Client Sample ID: CS190

Lab Sample ID: 880-57839-10
Date Collected: 05/06/25 12:52
Matrix: Solid
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/07/25 15:35	05/08/25 14:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/07/25 15:35	05/08/25 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:54*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*05/07/25 15:35*	*05/08/25 14:54*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS190

Lab Sample ID: 880-57839-10
Date Collected: 05/06/25 12:52
Matrix: Solid
Date Received: 05/07/25 13:51

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			05/08/25 14:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/08/25 22:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:11	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:11*	*1*
o-Terphenyl	*84*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**300**		10.1		mg/Kg			05/08/25 12:02	1

Client Sample ID: CS194

Lab Sample ID: 880-57839-11
Date Collected: 05/06/25 12:54
Matrix: Solid
Date Received: 05/07/25 13:51

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		05/07/25 15:35	05/08/25 17:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 17:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 17:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/07/25 15:35	05/08/25 17:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 17:02	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/07/25 15:35	05/08/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:02*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/08/25 17:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 22:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:25	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS194

Lab Sample ID: 880-57839-11
Matrix: Solid
Date Collected: 05/06/25 12:54
Date Received: 05/07/25 13:51

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:25*	*1*
o-Terphenyl	*78*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		10.1		mg/Kg			05/08/25 12:09	1

Client Sample ID: CS199

Lab Sample ID: 880-57839-12
Matrix: Solid
Date Collected: 05/06/25 12:56
Date Received: 05/07/25 13:51

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/07/25 15:35	05/08/25 17:22	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/07/25 15:35	05/08/25 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:22*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/08/25 17:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/08/25 22:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/07/25 14:33	05/08/25 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:41*	*1*
o-Terphenyl	*80*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		10.1		mg/Kg			05/08/25 12:31	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: SW07

Date Collected: 05/06/25 12:58
Date Received: 05/07/25 13:51

Lab Sample ID: 880-57839-13

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/07/25 15:35	05/08/25 17:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/07/25 15:35	05/08/25 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:42*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/07/25 15:35*	*05/08/25 17:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/08/25 17:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/08/25 22:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:55	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/07/25 14:33	05/08/25 22:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:55*	*1*
o-Terphenyl	*82*		*70 - 130*	*05/07/25 14:33*	*05/08/25 22:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**191**		10.0		mg/Kg			05/08/25 12:39	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57839-1	CS01	120	84
880-57839-1 MS	CS01	122	85
880-57839-1 MSD	CS01	117	89
880-57839-2	CS02	118	83
880-57839-3	CS03	116	85
880-57839-4	CS04	113	71
880-57839-5	CS05	111	84
880-57839-6	CS06	122	72
880-57839-7	CS07	115	87
880-57839-8	CS08	70	74
880-57839-9	CS09	114	84
880-57839-10	CS190	128	75
880-57839-11	CS194	127	89
880-57839-12	CS199	130	74
880-57839-13	SW07	113	85
LCS 880-109665/1-A	Lab Control Sample	110	87
LCSD 880-109665/2-A	Lab Control Sample Dup	115	86
MB 880-109665/5-A	Method Blank	117	81

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-57839-1	CS01	92	84
880-57839-2	CS02	93	85
880-57839-3	CS03	93	85
880-57839-4	CS04	93	85
880-57839-5	CS05	90	83
880-57839-6	CS06	91	84
880-57839-7	CS07	95	88
880-57839-8	CS08	89	83
880-57839-8 MS	CS08	99	87
880-57839-8 MSD	CS08	97	84
880-57839-9	CS09	89	82
880-57839-10	CS190	91	84
880-57839-11	CS194	87	78
880-57839-12	CS199	88	80
880-57839-13	SW07	90	82
LCS 880-109590/2-A	Lab Control Sample	107	90
LCS 880-109662/2-A	Lab Control Sample	96	82
LCSD 880-109590/3-A	Lab Control Sample Dup	109	92
LCSD 880-109662/3-A	Lab Control Sample Dup	100	84
MB 880-109590/1-A	Method Blank	122	108
MB 880-109662/1-A	Method Blank	139 S1+	126

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-109665/5-A
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109665

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/07/25 15:35	05/08/25 11:28	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/07/25 15:35	05/08/25 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/07/25 15:35*	*05/08/25 11:28*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/07/25 15:35*	*05/08/25 11:28*	*1*

Lab Sample ID: LCS 880-109665/1-A
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109665

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07001		mg/Kg		70	70 - 130		
Toluene			0.100	0.07894		mg/Kg		79	70 - 130		
Ethylbenzene			0.100	0.08151		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene			0.200	0.1683		mg/Kg		84	70 - 130		
o-Xylene			0.100	0.08077		mg/Kg		81	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: LCSD 880-109665/2-A
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109665

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07664		mg/Kg		77	70 - 130	9	35
Toluene			0.100	0.07897		mg/Kg		79	70 - 130	0	35
Ethylbenzene			0.100	0.08169		mg/Kg		82	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1703		mg/Kg		85	70 - 130	1	35
o-Xylene			0.100	0.08185		mg/Kg		82	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 880-57839-1 MS
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: CS01
Prep Type: Total/NA
Prep Batch: 109665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08902		mg/Kg		89	70 - 130		
Toluene	<0.00200	U	0.100	0.1008		mg/Kg		101	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-57839-1 MS
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: CS01
Prep Type: Total/NA
Prep Batch: 109665

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.1066		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2140		mg/Kg		107	70 - 130
o-Xylene	<0.00200	U	0.100	0.1001		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 880-57839-1 MSD
Matrix: Solid
Analysis Batch: 109696

Client Sample ID: CS01
Prep Type: Total/NA
Prep Batch: 109665

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09384		mg/Kg		94	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.1044		mg/Kg		104	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.1077		mg/Kg		108	70 - 130	1	35
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2233		mg/Kg		112	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.1051		mg/Kg		105	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-109590/1-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109590

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 23:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 23:03	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 07:57	05/09/25 23:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*05/07/25 07:57*	*05/09/25 23:03*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/07/25 07:57*	*05/09/25 23:03*	*1*

Lab Sample ID: LCS 880-109590/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109590

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	951.2		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)			1000	997.6		mg/Kg		100	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-109590/2-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109590

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: LCSD 880-109590/3-A
Matrix: Solid
Analysis Batch: 109892

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109590

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	924.4		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	984.3		mg/Kg		98	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: MB 880-109662/1-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 109662

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/07/25 14:33	05/08/25 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/07/25 14:33	05/08/25 20:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/07/25 14:33	05/08/25 20:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	05/07/25 14:33	05/08/25 20:25	1
o-Terphenyl	126		70 - 130	05/07/25 14:33	05/08/25 20:25	1

Lab Sample ID: LCS 880-109662/2-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 109662

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	883.8		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)			1000	891.7		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	82		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-109662/3-A
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 109662

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	929.6		mg/Kg		93	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	919.2		mg/Kg		92	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Lab Sample ID: 880-57839-8 MS
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: CS08
Prep Type: Total/NA
Prep Batch: 109662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	998	1197		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	998	1102		mg/Kg		108	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: 880-57839-8 MSD
Matrix: Solid
Analysis Batch: 109714

Client Sample ID: CS08
Prep Type: Total/NA
Prep Batch: 109662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	998	1154		mg/Kg		116	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<50.1	U	998	1103		mg/Kg		108	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-109694/1-A
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/08/25 10:04	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-109694/2-A
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.0		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-109694/3-A
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.7		mg/Kg		104	90 - 110	2	20

Lab Sample ID: 880-57839-1 MS
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: CS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	264		252	516.9		mg/Kg		100	90 - 110		

Lab Sample ID: 880-57839-1 MSD
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: CS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	264		252	520.3		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 880-57839-11 MS
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: CS194
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	100		252	339.1		mg/Kg		95	90 - 110		

Lab Sample ID: 880-57839-11 MSD
Matrix: Solid
Analysis Batch: 109704

Client Sample ID: CS194
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		252	342.6		mg/Kg		96	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

GC VOA

Prep Batch: 109665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	5035	
880-57839-2	CS02	Total/NA	Solid	5035	
880-57839-3	CS03	Total/NA	Solid	5035	
880-57839-4	CS04	Total/NA	Solid	5035	
880-57839-5	CS05	Total/NA	Solid	5035	
880-57839-6	CS06	Total/NA	Solid	5035	
880-57839-7	CS07	Total/NA	Solid	5035	
880-57839-8	CS08	Total/NA	Solid	5035	
880-57839-9	CS09	Total/NA	Solid	5035	
880-57839-10	CS190	Total/NA	Solid	5035	
880-57839-11	CS194	Total/NA	Solid	5035	
880-57839-12	CS199	Total/NA	Solid	5035	
880-57839-13	SW07	Total/NA	Solid	5035	
MB 880-109665/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-109665/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-109665/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-57839-1 MS	CS01	Total/NA	Solid	5035	
880-57839-1 MSD	CS01	Total/NA	Solid	5035	

Analysis Batch: 109696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	8021B	109665
880-57839-2	CS02	Total/NA	Solid	8021B	109665
880-57839-3	CS03	Total/NA	Solid	8021B	109665
880-57839-4	CS04	Total/NA	Solid	8021B	109665
880-57839-5	CS05	Total/NA	Solid	8021B	109665
880-57839-6	CS06	Total/NA	Solid	8021B	109665
880-57839-7	CS07	Total/NA	Solid	8021B	109665
880-57839-8	CS08	Total/NA	Solid	8021B	109665
880-57839-9	CS09	Total/NA	Solid	8021B	109665
880-57839-10	CS190	Total/NA	Solid	8021B	109665
880-57839-11	CS194	Total/NA	Solid	8021B	109665
880-57839-12	CS199	Total/NA	Solid	8021B	109665
880-57839-13	SW07	Total/NA	Solid	8021B	109665
MB 880-109665/5-A	Method Blank	Total/NA	Solid	8021B	109665
LCS 880-109665/1-A	Lab Control Sample	Total/NA	Solid	8021B	109665
LCSD 880-109665/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	109665
880-57839-1 MS	CS01	Total/NA	Solid	8021B	109665
880-57839-1 MSD	CS01	Total/NA	Solid	8021B	109665

Analysis Batch: 109753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	Total BTEX	
880-57839-2	CS02	Total/NA	Solid	Total BTEX	
880-57839-3	CS03	Total/NA	Solid	Total BTEX	
880-57839-4	CS04	Total/NA	Solid	Total BTEX	
880-57839-5	CS05	Total/NA	Solid	Total BTEX	
880-57839-6	CS06	Total/NA	Solid	Total BTEX	
880-57839-7	CS07	Total/NA	Solid	Total BTEX	
880-57839-8	CS08	Total/NA	Solid	Total BTEX	
880-57839-9	CS09	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 109753 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-10	CS190	Total/NA	Solid	Total BTEX	
880-57839-11	CS194	Total/NA	Solid	Total BTEX	
880-57839-12	CS199	Total/NA	Solid	Total BTEX	
880-57839-13	SW07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 109590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	8015NM Prep	
880-57839-2	CS02	Total/NA	Solid	8015NM Prep	
880-57839-3	CS03	Total/NA	Solid	8015NM Prep	
880-57839-4	CS04	Total/NA	Solid	8015NM Prep	
880-57839-5	CS05	Total/NA	Solid	8015NM Prep	
880-57839-6	CS06	Total/NA	Solid	8015NM Prep	
880-57839-7	CS07	Total/NA	Solid	8015NM Prep	
MB 880-109590/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109590/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 109662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-8	CS08	Total/NA	Solid	8015NM Prep	
880-57839-9	CS09	Total/NA	Solid	8015NM Prep	
880-57839-10	CS190	Total/NA	Solid	8015NM Prep	
880-57839-11	CS194	Total/NA	Solid	8015NM Prep	
880-57839-12	CS199	Total/NA	Solid	8015NM Prep	
880-57839-13	SW07	Total/NA	Solid	8015NM Prep	
MB 880-109662/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-109662/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-109662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-57839-8 MS	CS08	Total/NA	Solid	8015NM Prep	
880-57839-8 MSD	CS08	Total/NA	Solid	8015NM Prep	

Analysis Batch: 109714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-8	CS08	Total/NA	Solid	8015B NM	109662
880-57839-9	CS09	Total/NA	Solid	8015B NM	109662
880-57839-10	CS190	Total/NA	Solid	8015B NM	109662
880-57839-11	CS194	Total/NA	Solid	8015B NM	109662
880-57839-12	CS199	Total/NA	Solid	8015B NM	109662
880-57839-13	SW07	Total/NA	Solid	8015B NM	109662
MB 880-109662/1-A	Method Blank	Total/NA	Solid	8015B NM	109662
LCS 880-109662/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109662
LCSD 880-109662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109662
880-57839-8 MS	CS08	Total/NA	Solid	8015B NM	109662
880-57839-8 MSD	CS08	Total/NA	Solid	8015B NM	109662

Analysis Batch: 109812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 109812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-2	CS02	Total/NA	Solid	8015 NM	
880-57839-3	CS03	Total/NA	Solid	8015 NM	
880-57839-4	CS04	Total/NA	Solid	8015 NM	
880-57839-5	CS05	Total/NA	Solid	8015 NM	
880-57839-6	CS06	Total/NA	Solid	8015 NM	
880-57839-7	CS07	Total/NA	Solid	8015 NM	
880-57839-8	CS08	Total/NA	Solid	8015 NM	
880-57839-9	CS09	Total/NA	Solid	8015 NM	
880-57839-10	CS190	Total/NA	Solid	8015 NM	
880-57839-11	CS194	Total/NA	Solid	8015 NM	
880-57839-12	CS199	Total/NA	Solid	8015 NM	
880-57839-13	SW07	Total/NA	Solid	8015 NM	

Analysis Batch: 109892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Total/NA	Solid	8015B NM	109590
880-57839-2	CS02	Total/NA	Solid	8015B NM	109590
880-57839-3	CS03	Total/NA	Solid	8015B NM	109590
880-57839-4	CS04	Total/NA	Solid	8015B NM	109590
880-57839-5	CS05	Total/NA	Solid	8015B NM	109590
880-57839-6	CS06	Total/NA	Solid	8015B NM	109590
880-57839-7	CS07	Total/NA	Solid	8015B NM	109590
MB 880-109590/1-A	Method Blank	Total/NA	Solid	8015B NM	109590
LCS 880-109590/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	109590
LCSD 880-109590/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	109590

HPLC/IC

Leach Batch: 109694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Soluble	Solid	DI Leach	
880-57839-2	CS02	Soluble	Solid	DI Leach	
880-57839-3	CS03	Soluble	Solid	DI Leach	
880-57839-4	CS04	Soluble	Solid	DI Leach	
880-57839-5	CS05	Soluble	Solid	DI Leach	
880-57839-6	CS06	Soluble	Solid	DI Leach	
880-57839-7	CS07	Soluble	Solid	DI Leach	
880-57839-8	CS08	Soluble	Solid	DI Leach	
880-57839-9	CS09	Soluble	Solid	DI Leach	
880-57839-10	CS190	Soluble	Solid	DI Leach	
880-57839-11	CS194	Soluble	Solid	DI Leach	
880-57839-12	CS199	Soluble	Solid	DI Leach	
880-57839-13	SW07	Soluble	Solid	DI Leach	
MB 880-109694/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-109694/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-109694/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-57839-1 MS	CS01	Soluble	Solid	DI Leach	
880-57839-1 MSD	CS01	Soluble	Solid	DI Leach	
880-57839-11 MS	CS194	Soluble	Solid	DI Leach	
880-57839-11 MSD	CS194	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

HPLC/IC

Analysis Batch: 109704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-57839-1	CS01	Soluble	Solid	300.0	109694
880-57839-2	CS02	Soluble	Solid	300.0	109694
880-57839-3	CS03	Soluble	Solid	300.0	109694
880-57839-4	CS04	Soluble	Solid	300.0	109694
880-57839-5	CS05	Soluble	Solid	300.0	109694
880-57839-6	CS06	Soluble	Solid	300.0	109694
880-57839-7	CS07	Soluble	Solid	300.0	109694
880-57839-8	CS08	Soluble	Solid	300.0	109694
880-57839-9	CS09	Soluble	Solid	300.0	109694
880-57839-10	CS190	Soluble	Solid	300.0	109694
880-57839-11	CS194	Soluble	Solid	300.0	109694
880-57839-12	CS199	Soluble	Solid	300.0	109694
880-57839-13	SW07	Soluble	Solid	300.0	109694
MB 880-109694/1-A	Method Blank	Soluble	Solid	300.0	109694
LCS 880-109694/2-A	Lab Control Sample	Soluble	Solid	300.0	109694
LCSD 880-109694/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	109694
880-57839-1 MS	CS01	Soluble	Solid	300.0	109694
880-57839-1 MSD	CS01	Soluble	Solid	300.0	109694
880-57839-11 MS	CS194	Soluble	Solid	300.0	109694
880-57839-11 MSD	CS194	Soluble	Solid	300.0	109694

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS01

Lab Sample ID: 880-57839-1
Matrix: Solid
Date Collected: 05/06/25 10:48
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 11:50
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 11:50
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 03:44
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 03:44
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 10:26

Client Sample ID: CS02

Lab Sample ID: 880-57839-2
Matrix: Solid
Date Collected: 05/06/25 10:50
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 12:10
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 12:10
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 03:59
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 03:59
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 10:48

Client Sample ID: CS03

Lab Sample ID: 880-57839-3
Matrix: Solid
Date Collected: 05/06/25 10:52
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 12:31
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 12:31
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 04:14
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 04:14
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 10:55

Client Sample ID: CS04

Lab Sample ID: 880-57839-4
Matrix: Solid
Date Collected: 05/06/25 10:54
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 12:51
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 12:51

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS04

Lab Sample ID: 880-57839-4
Matrix: Solid
Date Collected: 05/06/25 10:54
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 04:29
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 04:29
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:03

Client Sample ID: CS05

Lab Sample ID: 880-57839-5
Matrix: Solid
Date Collected: 05/06/25 10:56
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 13:12
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 13:12
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 04:43
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 04:43
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:10

Client Sample ID: CS06

Lab Sample ID: 880-57839-6
Matrix: Solid
Date Collected: 05/06/25 10:58
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 13:32
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 13:32
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 04:59
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 04:59
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:32

Client Sample ID: CS07

Lab Sample ID: 880-57839-7
Matrix: Solid
Date Collected: 05/06/25 11:00
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 13:52
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 13:52
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/10/25 05:12
Total/NA	Prep	8015NM Prep			109590	EL	EET MID	05/07/25 08:08
Total/NA	Analysis	8015B NM		1	109892	TKC	EET MID	05/10/25 05:12

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS07

Lab Sample ID: 880-57839-7
Matrix: Solid
Date Collected: 05/06/25 11:00
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:40

Client Sample ID: CS08

Lab Sample ID: 880-57839-8
Matrix: Solid
Date Collected: 05/06/25 11:02
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 14:13
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 14:13
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 21:12
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 21:12
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:47

Client Sample ID: CS09

Lab Sample ID: 880-57839-9
Matrix: Solid
Date Collected: 05/06/25 11:04
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 14:33
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 14:33
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 21:56
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 21:56
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 11:54

Client Sample ID: CS190

Lab Sample ID: 880-57839-10
Matrix: Solid
Date Collected: 05/06/25 12:52
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 14:54
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 14:54
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 22:11
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 22:11
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 12:02

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Client Sample ID: CS194

Lab Sample ID: 880-57839-11

Date Collected: 05/06/25 12:54
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 17:02
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 17:02
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 22:25
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 22:25
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 12:09

Client Sample ID: CS199

Lab Sample ID: 880-57839-12

Date Collected: 05/06/25 12:56
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 17:22
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 17:22
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 22:41
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 22:41
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 12:31

Client Sample ID: SW07

Lab Sample ID: 880-57839-13

Date Collected: 05/06/25 12:58
Matrix: Solid
Date Received: 05/07/25 13:51

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			109665	AA	EET MID	05/07/25 15:35
Total/NA	Analysis	8021B		1	109696	MNR	EET MID	05/08/25 17:42
Total/NA	Analysis	Total BTEX		1	109753	SM	EET MID	05/08/25 17:42
Total/NA	Analysis	8015 NM		1	109812	SM	EET MID	05/08/25 22:55
Total/NA	Prep	8015NM Prep			109662	FC	EET MID	05/07/25 14:33
Total/NA	Analysis	8015B NM		1	109714	TKC	EET MID	05/08/25 22:55
Soluble	Leach	DI Leach			109694	SA	EET MID	05/08/25 07:51
Soluble	Analysis	300.0		1	109704	CH	EET MID	05/08/25 12:39

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR FAC Line

Job ID: 880-57839-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-57839-1	CS01	Solid	05/06/25 10:48	05/07/25 13:51
880-57839-2	CS02	Solid	05/06/25 10:50	05/07/25 13:51
880-57839-3	CS03	Solid	05/06/25 10:52	05/07/25 13:51
880-57839-4	CS04	Solid	05/06/25 10:54	05/07/25 13:51
880-57839-5	CS05	Solid	05/06/25 10:56	05/07/25 13:51
880-57839-6	CS06	Solid	05/06/25 10:58	05/07/25 13:51
880-57839-7	CS07	Solid	05/06/25 11:00	05/07/25 13:51
880-57839-8	CS08	Solid	05/06/25 11:02	05/07/25 13:51
880-57839-9	CS09	Solid	05/06/25 11:04	05/07/25 13:51
880-57839-10	CS190	Solid	05/06/25 12:52	05/07/25 13:51
880-57839-11	CS194	Solid	05/06/25 12:54	05/07/25 13:51
880-57839-12	CS199	Solid	05/06/25 12:56	05/07/25 13:51
880-57839-13	SW07	Solid	05/06/25 12:58	05/07/25 13:51

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-57839 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	Ensolum
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Fac Line	Turn Around	☐ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Tabitha Guadian		
PO #:	03D3836001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.8
Total Containers:		Corrected Temperature:	4.7

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	TPH 8015	Chloride 300.0	Sample Comments
CS01	S	5/6/25	1048	0.25'	C	1		X	X	X	
CS02			1050	0.25'				X	X	X	
CS03			1052	0.25'				X	X	X	
CS04			1054	0.25'				X	X	X	
CS05			1056	0.25'				X	X	X	
CS06			1058	2'				X	X	X	
CS07			1100	2'				X	X	X	
CS08			1102	2'				X	X	X	
CS09			1104	2'				X	X	X	
CS10			1252	1'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5/7/25 1351	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 57839

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Project Manager:	Hadlie Green	Bill to: (if different)	Ensolum
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	03D3836001		
PO #:	Tabitha Guadiana		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR4	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.1	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.8	
Total Containers:		Corrected Temperature:	4.7	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX 8021	TPH 8015	Chloride 300	Sample Comments
CS194	S	5/6/25	1254	0.5'	C	1	X	X	X	
CS199	S	5/6/25	1256	0.5'	C	1	X	X	X	
SW07	S	5/6/25	1258	0-1'	C	1	X	X	X	

5/6/25

TAT

NFE

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5/7/25 1351	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-57839-1
SDG Number: Eddy County

Login Number: 57839
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:39:54 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8173-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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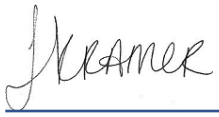
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:39:54 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8173-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8173-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1 Eurofins Carlsbad

Job Narrative
890-8173-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 5/16/2025 3:57 PM. 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 4.0°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: SW 05 (890-8173-1).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-110415 and analytical batch 880-110687 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-110415 and analytical batch 880-110687 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110451 and analytical batch 880-110505 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.

The associated samples are: SW 05 (890-8173-1), (890-8173-A-1-E MS) and (890-8173-A-1-F MSD).

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: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Client Sample ID: SW 05

Date Collected: 05/16/25 10:12
Date Received: 05/16/25 15:57
Sample Depth: 0 - 3'

Lab Sample ID: 890-8173-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
o-Xylene	**0.00382**		0.00200		mg/Kg		05/19/25 09:51	05/19/25 19:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/19/25 09:51	05/19/25 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*05/19/25 09:51*	*05/19/25 19:50*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/19/25 09:51*	*05/19/25 19:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/19/25 19:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 21:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 21:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 21:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:05*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**	**F1**	10.1		mg/Kg			05/20/25 10:21	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8170-A-1-D MS	Matrix Spike	94	92
890-8170-A-1-E MSD	Matrix Spike Duplicate	84	106
890-8173-1	SW 05	82	96
LCS 880-110420/1-A	Lab Control Sample	96	103
LCSD 880-110420/2-A	Lab Control Sample Dup	94	90
MB 880-110420/5-A	Method Blank	72	110

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8167-A-5-C MS	Matrix Spike	80	71
890-8167-A-5-D MSD	Matrix Spike Duplicate	96	94
890-8173-1	SW 05	105	93
LCS 880-110415/2-A	Lab Control Sample	97	100
LCSD 880-110415/3-A	Lab Control Sample Dup	113	115
MB 880-110415/1-A	Method Blank	130	120

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110420/5-A
Matrix: Solid
Analysis Batch: 110410

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110420

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/19/25 09:51	05/19/25 11:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/19/25 09:51	05/19/25 11:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*	*05/19/25 09:51*	*05/19/25 11:35*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/19/25 09:51*	*05/19/25 11:35*	*1*

Lab Sample ID: LCS 880-110420/1-A
Matrix: Solid
Analysis Batch: 110410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110420

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09344		mg/Kg		93	70 - 130		
Toluene			0.100	0.09022		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09280		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1941		mg/Kg		97	70 - 130		
o-Xylene			0.100	0.09589		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-110420/2-A
Matrix: Solid
Analysis Batch: 110410

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110420

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08977		mg/Kg		90	70 - 130	4	35
Toluene			0.100	0.08934		mg/Kg		89	70 - 130	1	35
Ethylbenzene			0.100	0.09383		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1974		mg/Kg		99	70 - 130	2	35
o-Xylene			0.100	0.09702		mg/Kg		97	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-8170-A-1-D MS
Matrix: Solid
Analysis Batch: 110410

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110420

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.07944		mg/Kg		79	70 - 130		
Toluene	<0.00200	U	0.100	0.07850		mg/Kg		79	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8170-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110410 — **Prep Batch: 110420**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08144		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1714		mg/Kg		86	70 - 130
o-Xylene	<0.00200	U	0.100	0.08412		mg/Kg		84	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-8170-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110410 — **Prep Batch: 110420**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08692		mg/Kg		87	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.08062		mg/Kg		81	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.08009		mg/Kg		80	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1654		mg/Kg		83	70 - 130	4	35
o-Xylene	<0.00200	U	0.100	0.08059		mg/Kg		81	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110415/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110687 — **Prep Batch: 110415**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/19/25 08:53	05/21/25 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/19/25 08:53	05/21/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/19/25 08:53	05/21/25 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*05/19/25 08:53*	*05/21/25 15:49*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/19/25 08:53*	*05/21/25 15:49*	*1*

Lab Sample ID: LCS 880-110415/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110687 — **Prep Batch: 110415**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1095		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1099		mg/Kg		110	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110415/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110415

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-110415/3-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110415

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1129		mg/Kg		113	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1119		mg/Kg		112	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-8167-A-5-C MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	567.8	F1	mg/Kg		57	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	681.6	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 890-8167-A-5-D MSD
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110415

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	893.4	F2	mg/Kg		89	70 - 130	45	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	988.1	F2	mg/Kg		96	70 - 130	37	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110451/1-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 10:00	1

Lab Sample ID: LCS 880-110451/2-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-110451/3-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-8173-1 MS
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: SW 05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	107	F1	252	385.7	F1	mg/Kg		111	90 - 110		

Lab Sample ID: 890-8173-1 MSD
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: SW 05
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	107	F1	252	392.4	F1	mg/Kg		114	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

GC VOA

Analysis Batch: 110410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	8021B	110420
MB 880-110420/5-A	Method Blank	Total/NA	Solid	8021B	110420
LCS 880-110420/1-A	Lab Control Sample	Total/NA	Solid	8021B	110420
LCSD 880-110420/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110420
890-8170-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	110420
890-8170-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110420

Prep Batch: 110420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	5035	
MB 880-110420/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110420/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110420/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8170-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-8170-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 110513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	8015NM Prep	
MB 880-110415/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110415/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8167-A-5-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8167-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	8015B NM	110415
MB 880-110415/1-A	Method Blank	Total/NA	Solid	8015B NM	110415
LCS 880-110415/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110415
LCSD 880-110415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110415
890-8167-A-5-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110415
890-8167-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110415

Analysis Batch: 110723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Soluble	Solid	DI Leach	
MB 880-110451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

HPLC/IC (Continued)

Leach Batch: 110451 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1 MS	SW 05	Soluble	Solid	DI Leach	
890-8173-1 MSD	SW 05	Soluble	Solid	DI Leach	

Analysis Batch: 110505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8173-1	SW 05	Soluble	Solid	300.0	110451
MB 880-110451/1-A	Method Blank	Soluble	Solid	300.0	110451
LCS 880-110451/2-A	Lab Control Sample	Soluble	Solid	300.0	110451
LCSD 880-110451/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110451
890-8173-1 MS	SW 05	Soluble	Solid	300.0	110451
890-8173-1 MSD	SW 05	Soluble	Solid	300.0	110451

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Client Sample ID: SW 05

Date Collected: 05/16/25 10:12
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8173-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110420	05/19/25 09:51	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110410	05/19/25 19:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110513	05/19/25 19:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			110723	05/21/25 21:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 21:05	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110451	05/19/25 14:02	SA	EET MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	110505	05/20/25 10:21	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8173-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8173-1	SW 05	Solid	05/16/25 10:12	05/16/25 15:57	0 - 3'

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5/22/2025

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
~~Project Location:~~	~~32.30486, -103.89709~~	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Thm-07
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

ANALYSIS REQUEST

890-8173 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cool	Cool	Cool	Sample Comments
								BTEX 8021	TPH 8015	Chloride 300	
SW05	Soil	05/16/25	10:12	0-3'	C	1		✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Trevor Wargo		5/16 1537	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8173-1
SDG Number: 03D3836001

Login Number: 8173
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8173-1
SDG Number: 03D3836001

Login Number: 8173
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/19/25 09:36 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:40:29 AM

JOB DESCRIPTION

flatland FNR Frac line
03d3836001

JOB NUMBER

890-8174-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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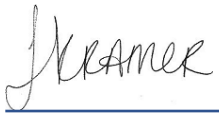
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Client: Ensolum
Project/Site: flatland FNR Frac line

Laboratory Job ID: 890-8174-1
SDG: 03d3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8174-1
Project: flatland FNR Frac line

Job ID: 890-8174-1 Eurofins Carlsbad

Job Narrative
890-8174-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were listed on the Chain of Custody (COC); however, no samples were received: CS98 (890-8174-1), CS104 (890-8174-2), CS111 (890-8174-3), SW04 (890-8174-4), SW12 (890-8174-5), CS136 (890-8174-6), CS79 (890-8174-7), CS24 (890-8174-8), SW09 (890-8174-9) and CS138 (890-8174-10).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-110496 and analytical batch 880-110487 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: CS111 (890-8174-3), SW04 (890-8174-4), SW12 (890-8174-5) and CS138 (890-8174-10). 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.

Diesel Range Organics
Method 8015MOD_NM: The method blank for preparation batch 880-110415 and analytical batch 880-110687 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-110415 and analytical batch 880-110687 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS98

Lab Sample ID: 890-8174-1
Matrix: Solid
Date Collected: 05/16/25 11:36
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 12:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 08:57	05/20/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:14*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 12:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/21/25 21:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 21:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 21:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:38*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		10.1		mg/Kg			05/20/25 12:15	1

Client Sample ID: CS104

Lab Sample ID: 890-8174-2
Matrix: Solid
Date Collected: 05/16/25 11:31
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 12:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 08:57	05/20/25 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:34*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS104

Date Collected: 05/16/25 11:31
Date Received: 05/16/25 15:57
Sample Depth: 1

Lab Sample ID: 890-8174-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/21/25 21:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		05/19/25 08:54	05/21/25 21:54	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		05/19/25 08:54	05/21/25 21:54	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		05/19/25 08:54	05/21/25 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:54*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/19/25 08:54*	*05/21/25 21:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**424**		9.94	mg/Kg			05/20/25 12:22	1

Client Sample ID: CS111

Date Collected: 05/16/25 11:28
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8174-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:57	05/20/25 12:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 08:57	05/20/25 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:55*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*05/20/25 08:57*	*05/20/25 12:55*	*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			05/20/25 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/21/25 22:10	1

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS111

Lab Sample ID: 890-8174-3
Matrix: Solid
Date Collected: 05/16/25 11:28
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:10*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**162**		9.92		mg/Kg			05/20/25 12:42	1

Client Sample ID: SW04

Lab Sample ID: 890-8174-4
Matrix: Solid
Date Collected: 05/16/25 12:23
Date Received: 05/16/25 15:57
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 13:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 08:57	05/20/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*	*05/20/25 08:57*	*05/20/25 13:15*	*1*
1,4-Difluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*05/20/25 08:57*	*05/20/25 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 13:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/21/25 22:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/19/25 08:54	05/21/25 22:27	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/19/25 08:54	05/21/25 22:27	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/19/25 08:54	05/21/25 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:27*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:27*	*1*

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: SW04

Lab Sample ID: 890-8174-4
Matrix: Solid
Date Collected: 05/16/25 12:23
Date Received: 05/16/25 15:57
Sample Depth: 0-1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	136		9.90		mg/Kg			05/20/25 12:49	1

Client Sample ID: SW12

Lab Sample ID: 890-8174-5
Matrix: Solid
Date Collected: 05/16/25 12:12
Date Received: 05/16/25 15:57
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:57	05/20/25 13:36	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 08:57	05/20/25 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*05/20/25 08:57*	*05/20/25 13:36*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*05/20/25 08:57*	*05/20/25 13:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/20/25 13:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/21/25 22:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/19/25 08:54	05/21/25 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:42*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	249		10.0		mg/Kg			05/20/25 12:56	1

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS136

Lab Sample ID: 890-8174-6
Matrix: Solid
Date Collected: 05/16/25 12:56
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:57	05/20/25 13:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 08:57	05/20/25 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*05/20/25 08:57*	*05/20/25 13:56*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:57*	*05/20/25 13:56*	*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			05/20/25 13:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 22:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 22:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 22:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:59*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/19/25 08:54*	*05/21/25 22:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**152**		10.1		mg/Kg			05/20/25 13:03	1

Client Sample ID: CS79

Lab Sample ID: 890-8174-7
Matrix: Solid
Date Collected: 05/15/25 15:18
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:57	05/20/25 14:16	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/20/25 08:57	05/20/25 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*05/20/25 08:57*	*05/20/25 14:16*	*1*

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS79

Lab Sample ID: 890-8174-7
Matrix: Solid
Date Collected: 05/15/25 15:18
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 08:57*	*05/20/25 14:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/20/25 14:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			05/21/25 23:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		05/19/25 08:54	05/21/25 23:15	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		05/19/25 08:54	05/21/25 23:15	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		05/19/25 08:54	05/21/25 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:15*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**290**		9.98	mg/Kg			05/20/25 14:29	1

Client Sample ID: SW09

Lab Sample ID: 890-8174-9
Matrix: Solid
Date Collected: 05/16/25 10:14
Date Received: 05/16/25 15:57
Sample Depth: 0-3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/20/25 08:57	05/20/25 14:57	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/20/25 08:57	05/20/25 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*05/20/25 08:57*	*05/20/25 14:57*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:57*	*05/20/25 14:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			05/20/25 14:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			05/21/25 23:32	1

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: SW09

Lab Sample ID: 890-8174-9
Matrix: Solid
Date Collected: 05/16/25 10:14
Date Received: 05/16/25 15:57
Sample Depth: 0-3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/19/25 08:54	05/21/25 23:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/19/25 08:54	05/21/25 23:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/19/25 08:54	05/21/25 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:32*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**297**		10.0		mg/Kg			05/20/25 13:10	1

Client Sample ID: CS138

Lab Sample ID: 890-8174-10
Matrix: Solid
Date Collected: 05/16/25 10:07
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:57	05/20/25 15:18	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 08:57	05/20/25 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*05/20/25 08:57*	*05/20/25 15:18*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*05/20/25 08:57*	*05/20/25 15:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 15:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 23:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 23:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 23:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/25 08:54	05/21/25 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:47*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/19/25 08:54*	*05/21/25 23:47*	*1*

Client Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS138
Date Collected: 05/16/25 10:07
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8174-10
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	475		10.1		mg/Kg			05/20/25 13:17	1

Surrogate Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8174-1	CS98	107	108
890-8174-1 MS	CS98	113	105
890-8174-1 MSD	CS98	107	98
890-8174-2	CS104	129	107
890-8174-3	CS111	130	113
890-8174-4	SW04	157 S1+	133 S1+
890-8174-5	SW12	132 S1+	111
890-8174-6	CS136	125	104
890-8174-7	CS79	128	107
890-8174-9	SW09	126	104
890-8174-10	CS138	130	106
LCS 880-110496/1-A	Lab Control Sample	106	99
LCSD 880-110496/2-A	Lab Control Sample Dup	116	100
MB 880-110496/5-A	Method Blank	164 S1+	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8167-A-5-C MS	Matrix Spike	80	71
890-8167-A-5-D MSD	Matrix Spike Duplicate	96	94
890-8174-1	CS98	105	94
890-8174-2	CS104	104	94
890-8174-3	CS111	102	92
890-8174-4	SW04	108	96
890-8174-5	SW12	107	96
890-8174-6	CS136	105	98
890-8174-7	CS79	106	96
890-8174-9	SW09	105	95
890-8174-10	CS138	106	95
LCS 880-110415/2-A	Lab Control Sample	97	100
LCSD 880-110415/3-A	Lab Control Sample Dup	113	115
MB 880-110415/1-A	Method Blank	130	120

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110496/5-A
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110496

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:57	05/20/25 11:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 08:57	05/20/25 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*164*	*S1+*	*70 - 130*	*05/20/25 08:57*	*05/20/25 11:45*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/20/25 08:57*	*05/20/25 11:45*	*1*

Lab Sample ID: LCS 880-110496/1-A
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110496

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08280		mg/Kg		83	70 - 130		
Toluene			0.100	0.08094		mg/Kg		81	70 - 130		
Ethylbenzene			0.100	0.08591		mg/Kg		86	70 - 130		
m-Xylene & p-Xylene			0.200	0.1758		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08924		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-110496/2-A
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110496

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09598		mg/Kg		96	70 - 130	15	35
Toluene			0.100	0.08219		mg/Kg		82	70 - 130	2	35
Ethylbenzene			0.100	0.1002		mg/Kg		100	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1801		mg/Kg		90	70 - 130	2	35
o-Xylene			0.100	0.1003		mg/Kg		100	70 - 130	12	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-8174-1 MS
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: CS98
Prep Type: Total/NA
Prep Batch: 110496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09302		mg/Kg		93	70 - 130		
Toluene	<0.00200	U	0.100	0.07778		mg/Kg		78	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8174-1 MS
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: CS98
Prep Type: Total/NA
Prep Batch: 110496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08831		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1827		mg/Kg		91	70 - 130
o-Xylene	<0.00200	U	0.100	0.09317		mg/Kg		93	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-8174-1 MSD
Matrix: Solid
Analysis Batch: 110487

Client Sample ID: CS98
Prep Type: Total/NA
Prep Batch: 110496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08918		mg/Kg		89	70 - 130	4	35
Toluene	<0.00200	U	0.100	0.07752		mg/Kg		78	70 - 130	0	35
Ethylbenzene	<0.00200	U	0.100	0.09067		mg/Kg		91	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1766		mg/Kg		88	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.08919		mg/Kg		89	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110415/1-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110415

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/19/25 08:53	05/21/25 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/19/25 08:53	05/21/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/19/25 08:53	05/21/25 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*05/19/25 08:53*	*05/21/25 15:49*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/19/25 08:53*	*05/21/25 15:49*	*1*

Lab Sample ID: LCS 880-110415/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110415

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1095		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1099		mg/Kg		110	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110415/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110415

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	97		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: LCSD 880-110415/3-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110415

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1129		mg/Kg		113	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	1119		mg/Kg		112	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	115		70 - 130

Lab Sample ID: 890-8167-A-5-C MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	567.8	F1	mg/Kg		57	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	681.6	F1	mg/Kg		66	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	71		70 - 130

Lab Sample ID: 890-8167-A-5-D MSD
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110415

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	999	893.4	F2	mg/Kg		89	70 - 130	45	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	999	988.1	F2	mg/Kg		96	70 - 130	37	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110448/1-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 11:21	1

Lab Sample ID: LCS 880-110448/2-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.7		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110448/3-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8174-10 MS
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: CS138
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	475		253	738.0		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8174-10 MSD
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: CS138
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	475		253	732.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: MB 880-110436/1-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 14:08	1

Lab Sample ID: LCS 880-110436/2-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110436/3-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.1		mg/Kg		104	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-8174-7 MS
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: CS79
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	290		250	564.0		mg/Kg		110	90 - 110		

Lab Sample ID: 890-8174-7 MSD
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: CS79
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	290		250	564.0		mg/Kg		110	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

GC VOA

Analysis Batch: 110487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	8021B	110496
890-8174-2	CS104	Total/NA	Solid	8021B	110496
890-8174-3	CS111	Total/NA	Solid	8021B	110496
890-8174-4	SW04	Total/NA	Solid	8021B	110496
890-8174-5	SW12	Total/NA	Solid	8021B	110496
890-8174-6	CS136	Total/NA	Solid	8021B	110496
890-8174-7	CS79	Total/NA	Solid	8021B	110496
890-8174-9	SW09	Total/NA	Solid	8021B	110496
890-8174-10	CS138	Total/NA	Solid	8021B	110496
MB 880-110496/5-A	Method Blank	Total/NA	Solid	8021B	110496
LCS 880-110496/1-A	Lab Control Sample	Total/NA	Solid	8021B	110496
LCSD 880-110496/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110496
890-8174-1 MS	CS98	Total/NA	Solid	8021B	110496
890-8174-1 MSD	CS98	Total/NA	Solid	8021B	110496

Prep Batch: 110496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	5035	
890-8174-2	CS104	Total/NA	Solid	5035	
890-8174-3	CS111	Total/NA	Solid	5035	
890-8174-4	SW04	Total/NA	Solid	5035	
890-8174-5	SW12	Total/NA	Solid	5035	
890-8174-6	CS136	Total/NA	Solid	5035	
890-8174-7	CS79	Total/NA	Solid	5035	
890-8174-9	SW09	Total/NA	Solid	5035	
890-8174-10	CS138	Total/NA	Solid	5035	
MB 880-110496/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110496/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110496/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8174-1 MS	CS98	Total/NA	Solid	5035	
890-8174-1 MSD	CS98	Total/NA	Solid	5035	

Analysis Batch: 110682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	Total BTEX	
890-8174-2	CS104	Total/NA	Solid	Total BTEX	
890-8174-3	CS111	Total/NA	Solid	Total BTEX	
890-8174-4	SW04	Total/NA	Solid	Total BTEX	
890-8174-5	SW12	Total/NA	Solid	Total BTEX	
890-8174-6	CS136	Total/NA	Solid	Total BTEX	
890-8174-7	CS79	Total/NA	Solid	Total BTEX	
890-8174-9	SW09	Total/NA	Solid	Total BTEX	
890-8174-10	CS138	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 110415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	8015NM Prep	
890-8174-2	CS104	Total/NA	Solid	8015NM Prep	
890-8174-3	CS111	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

GC Semi VOA (Continued)

Prep Batch: 110415 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-4	SW04	Total/NA	Solid	8015NM Prep	
890-8174-5	SW12	Total/NA	Solid	8015NM Prep	
890-8174-6	CS136	Total/NA	Solid	8015NM Prep	
890-8174-7	CS79	Total/NA	Solid	8015NM Prep	
890-8174-9	SW09	Total/NA	Solid	8015NM Prep	
890-8174-10	CS138	Total/NA	Solid	8015NM Prep	
MB 880-110415/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110415/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8167-A-5-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8167-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	8015B NM	110415
890-8174-2	CS104	Total/NA	Solid	8015B NM	110415
890-8174-3	CS111	Total/NA	Solid	8015B NM	110415
890-8174-4	SW04	Total/NA	Solid	8015B NM	110415
890-8174-5	SW12	Total/NA	Solid	8015B NM	110415
890-8174-6	CS136	Total/NA	Solid	8015B NM	110415
890-8174-7	CS79	Total/NA	Solid	8015B NM	110415
890-8174-9	SW09	Total/NA	Solid	8015B NM	110415
890-8174-10	CS138	Total/NA	Solid	8015B NM	110415
MB 880-110415/1-A	Method Blank	Total/NA	Solid	8015B NM	110415
LCS 880-110415/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110415
LCSD 880-110415/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110415
890-8167-A-5-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110415
890-8167-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110415

Analysis Batch: 110724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Total/NA	Solid	8015 NM	
890-8174-2	CS104	Total/NA	Solid	8015 NM	
890-8174-3	CS111	Total/NA	Solid	8015 NM	
890-8174-4	SW04	Total/NA	Solid	8015 NM	
890-8174-5	SW12	Total/NA	Solid	8015 NM	
890-8174-6	CS136	Total/NA	Solid	8015 NM	
890-8174-7	CS79	Total/NA	Solid	8015 NM	
890-8174-9	SW09	Total/NA	Solid	8015 NM	
890-8174-10	CS138	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-7	CS79	Soluble	Solid	DI Leach	
MB 880-110436/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110436/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110436/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8174-7 MS	CS79	Soluble	Solid	DI Leach	
890-8174-7 MSD	CS79	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

HPLC/IC

Leach Batch: 110448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Soluble	Solid	DI Leach	
890-8174-2	CS104	Soluble	Solid	DI Leach	
890-8174-3	CS111	Soluble	Solid	DI Leach	
890-8174-4	SW04	Soluble	Solid	DI Leach	
890-8174-5	SW12	Soluble	Solid	DI Leach	
890-8174-6	CS136	Soluble	Solid	DI Leach	
890-8174-9	SW09	Soluble	Solid	DI Leach	
890-8174-10	CS138	Soluble	Solid	DI Leach	
MB 880-110448/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8174-10 MS	CS138	Soluble	Solid	DI Leach	
890-8174-10 MSD	CS138	Soluble	Solid	DI Leach	

Analysis Batch: 110516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-1	CS98	Soluble	Solid	300.0	110448
890-8174-2	CS104	Soluble	Solid	300.0	110448
890-8174-3	CS111	Soluble	Solid	300.0	110448
890-8174-4	SW04	Soluble	Solid	300.0	110448
890-8174-5	SW12	Soluble	Solid	300.0	110448
890-8174-6	CS136	Soluble	Solid	300.0	110448
890-8174-9	SW09	Soluble	Solid	300.0	110448
890-8174-10	CS138	Soluble	Solid	300.0	110448
MB 880-110448/1-A	Method Blank	Soluble	Solid	300.0	110448
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	300.0	110448
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110448
890-8174-10 MS	CS138	Soluble	Solid	300.0	110448
890-8174-10 MSD	CS138	Soluble	Solid	300.0	110448

Analysis Batch: 110526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8174-7	CS79	Soluble	Solid	300.0	110436
MB 880-110436/1-A	Method Blank	Soluble	Solid	300.0	110436
LCS 880-110436/2-A	Lab Control Sample	Soluble	Solid	300.0	110436
LCSD 880-110436/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110436
890-8174-7 MS	CS79	Soluble	Solid	300.0	110436
890-8174-7 MSD	CS79	Soluble	Solid	300.0	110436

Lab Chronicle

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS98

Lab Sample ID: 890-8174-1
Matrix: Solid
Date Collected: 05/16/25 11:36
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 12:14	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 12:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 21:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 21:38	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:15	SMC	EET MID

Client Sample ID: CS104

Lab Sample ID: 890-8174-2
Matrix: Solid
Date Collected: 05/16/25 11:31
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 12:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 12:34	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 21:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 21:54	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:22	SMC	EET MID

Client Sample ID: CS111

Lab Sample ID: 890-8174-3
Matrix: Solid
Date Collected: 05/16/25 11:28
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 12:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 12:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 22:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 22:10	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:42	SMC	EET MID

Client Sample ID: SW04

Lab Sample ID: 890-8174-4
Matrix: Solid
Date Collected: 05/16/25 12:23
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 13:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 13:15	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: SW04

Date Collected: 05/16/25 12:23
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110724	05/21/25 22:27	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 22:27	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:49	SMC	EET MID

Client Sample ID: SW12

Date Collected: 05/16/25 12:12
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 13:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 13:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 22:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 22:42	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 12:56	SMC	EET MID

Client Sample ID: CS136

Date Collected: 05/16/25 12:56
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 13:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 13:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 22:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 22:59	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:03	SMC	EET MID

Client Sample ID: CS79

Date Collected: 05/15/25 15:18
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 14:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 14:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 23:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 23:15	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Client Sample ID: CS79

Date Collected: 05/15/25 15:18
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 14:29	SMC	EET MID

Client Sample ID: SW09

Date Collected: 05/16/25 10:14
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 14:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 14:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 23:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 23:32	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:10	SMC	EET MID

Client Sample ID: CS138

Date Collected: 05/16/25 10:07
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8174-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110496	05/20/25 08:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110487	05/20/25 15:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110682	05/20/25 15:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			110724	05/21/25 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110415	05/19/25 08:54	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/21/25 23:47	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:17	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: flatland FNR Frac line

Job ID: 890-8174-1
SDG: 03d3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8174-1	CS98	Solid	05/16/25 11:36	05/16/25 15:57	2
890-8174-2	CS104	Solid	05/16/25 11:31	05/16/25 15:57	1
890-8174-3	CS111	Solid	05/16/25 11:28	05/16/25 15:57	2
890-8174-4	SW04	Solid	05/16/25 12:23	05/16/25 15:57	0-1
890-8174-5	SW12	Solid	05/16/25 12:12	05/16/25 15:57	0-1
890-8174-6	CS136	Solid	05/16/25 12:56	05/16/25 15:57	1
890-8174-7	CS79	Solid	05/15/25 15:18	05/16/25 15:57	1
890-8174-9	SW09	Solid	05/16/25 10:14	05/16/25 15:57	0-3
890-8174-10	CS138	Solid	05/16/25 10:07	05/16/25 15:57	2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-8174 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☒ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	Tracer
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	TPH 8015	Chloride 300	Sample Comments
CS98	S	05-6-25	1136	2	C	1		✓	✓	✓	
CS104		05-16-25	1131	1				✓	✓	✓	
CS111			1128	2				✓	✓	✓	
SW04			~~0923~~ 1223	0-1				✓	✓	✓	
SW12			~~0942~~ 1242	0-1				✓	✓	✓	
CS136			12:56	1				✓	✓	✓	
CS79		5/15/25	15:18	1'				✓	✓	✓	
CS24		05/16/25	9:03	1'							
SW09			10:14	0-3'							
CS138			10:07	2'				✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Trevor Wargo		5/16 1557	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Released to Imaging: 8/4/2025 3:28:31 PM

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5150.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8174-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: flatland FNR Frac line	Project #: 89000145			Other: N/A
Site: N/A	SSOW#: N/A			

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS98 (890-8174-1)	5/16/25	11:36 Mountain	G	Solid			X	X	X	X	X	1	
CS104 (890-8174-2)	5/16/25	11:31 Mountain	G	Solid			X	X	X	X	X	1	
CS111 (890-8174-3)	5/16/25	11:28 Mountain	G	Solid			X	X	X	X	X	1	
SW04 (890-8174-4)	5/16/25	12:23 Mountain	G	Solid			X	X	X	X	X	1	
SW12 (890-8174-5)	5/16/25	12:12 Mountain	G	Solid			X	X	X	X	X	1	
CS136 (890-8174-6)	5/16/25	12:56 Mountain	G	Solid			X	X	X	X	X	1	
CS79 (890-8174-7)	5/15/25	15:18 Mountain	G	Solid			X	X	X	X	X	1	
SW09 (890-8174-9)	5/16/25	10:14 Mountain	G	Solid			X	X	X	X	X	1	
CS138 (890-8174-10)	5/16/25	10:07 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:		Date/Time: 5/19 1630	Company	Received by:	Date/Time:	Company
Relinquished by:		Date/Time:	Company	Received by: Teddy Randell Lee	Date/Time: 5/20/25 0800	Company
				Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

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5/22/2025
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Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8174-1
SDG Number: 03d3836001

Login Number: 8174
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8174-1
SDG Number: 03d3836001

Login Number: 8174
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:41:31 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8176-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:31 PM

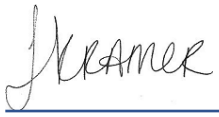
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:41:31 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8176-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8176-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1 Eurofins Carlsbad

Job Narrative
890-8176-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 153 (890-8176-1), CS 157 (890-8176-2), CS 158 (890-8176-3), CS 175 (890-8176-4), CS 14 (890-8176-5), CS 13 (890-8176-6), CS 15 (890-8176-7), CS 173 (890-8176-8), CS 30 (890-8176-9) and CS 155 (890-8176-10).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-110498 and analytical batch 880-110490 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-8175-A-2-C MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-110482 and analytical batch 880-110685 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 153

Lab Sample ID: 890-8176-1
Matrix: Solid
Date Collected: 05/15/25 11:36
Date Received: 05/16/25 15:57
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		05/20/25 09:01	05/20/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:49	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:49	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		05/20/25 09:01	05/20/25 11:49	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:49	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		05/20/25 09:01	05/20/25 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 11:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 21:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 21:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 21:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:05*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**203**		10.1		mg/Kg			05/20/25 19:05	1

Client Sample ID: CS 157

Lab Sample ID: 890-8176-2
Matrix: Solid
Date Collected: 05/15/25 11:27
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 12:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:09*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 157

Date Collected: 05/15/25 11:27
Date Received: 05/16/25 15:57
Sample Depth: 3'

Lab Sample ID: 890-8176-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 12:09	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/21/25 21:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/20/25 07:47	05/21/25 21:38	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/20/25 07:47	05/21/25 21:38	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/20/25 07:47	05/21/25 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:38*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**225**		10.0	mg/Kg			05/20/25 19:12	1

Client Sample ID: CS 158

Date Collected: 05/15/25 11:23
Date Received: 05/16/25 15:57
Sample Depth: 3'

Lab Sample ID: 890-8176-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 12:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 09:01	05/20/25 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:30*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:30*	*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			05/20/25 12:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/21/25 21:54	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 158

Lab Sample ID: 890-8176-3
Matrix: Solid
Date Collected: 05/15/25 11:23
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 21:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 21:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:54*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:47*	*05/21/25 21:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**257**		10.1		mg/Kg			05/20/25 19:19	1

Client Sample ID: CS 175

Lab Sample ID: 890-8176-4
Matrix: Solid
Date Collected: 05/15/25 10:02
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 12:50	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 09:01	05/20/25 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:50*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 12:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 12:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 22:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 22:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 22:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:10*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 175

Lab Sample ID: 890-8176-4
Matrix: Solid
Date Collected: 05/15/25 10:02
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	235		10.1		mg/Kg			05/20/25 19:40	1

Client Sample ID: CS 14

Lab Sample ID: 890-8176-5
Matrix: Solid
Date Collected: 05/15/25 08:52
Date Received: 05/16/25 15:57
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 13:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:11*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/20/25 13:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/21/25 22:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 22:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 22:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 07:47	05/21/25 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:27*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	241		9.90		mg/Kg			05/20/25 19:47	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 13

Lab Sample ID: 890-8176-6
Matrix: Solid
Date Collected: 05/15/25 08:48
Date Received: 05/16/25 15:57
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 13:31	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:31*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:31*	*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			05/20/25 13:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/21/25 22:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 22:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 22:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:42*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**721**		9.90		mg/Kg			05/20/25 19:54	1

Client Sample ID: CS 15

Lab Sample ID: 890-8176-7
Matrix: Solid
Date Collected: 05/15/25 08:57
Date Received: 05/16/25 15:57
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:01	05/20/25 13:52	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/20/25 09:01	05/20/25 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:52*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 15

Lab Sample ID: 890-8176-7
Matrix: Solid
Date Collected: 05/15/25 08:57
Date Received: 05/16/25 15:57
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:01*	*05/20/25 13:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/20/25 13:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/21/25 22:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		05/20/25 07:47	05/21/25 22:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		05/20/25 07:47	05/21/25 22:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		05/20/25 07:47	05/21/25 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*96*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:59*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/20/25 07:47*	*05/21/25 22:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		9.92	mg/Kg			05/20/25 20:01	1

Client Sample ID: CS 173

Lab Sample ID: 890-8176-8
Matrix: Solid
Date Collected: 05/15/25 10:31
Date Received: 05/16/25 15:57
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		05/20/25 09:01	05/20/25 14:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 14:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 14:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/20/25 09:01	05/20/25 14:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 14:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/20/25 09:01	05/20/25 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:12*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/20/25 14:12	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/21/25 23:15	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 173

Lab Sample ID: 890-8176-8
Matrix: Solid
Date Collected: 05/15/25 10:31
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/21/25 23:15	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/21/25 23:15	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/21/25 23:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:15*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**374**		9.90		mg/Kg			05/20/25 20:08	1

Client Sample ID: CS 30

Lab Sample ID: 890-8176-9
Matrix: Solid
Date Collected: 05/15/25 09:39
Date Received: 05/16/25 15:57
Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 09:01	05/20/25 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:33*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 14:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/21/25 23:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 23:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 23:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:32*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:32*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 30

Lab Sample ID: 890-8176-9
Matrix: Solid
Date Collected: 05/15/25 09:39
Date Received: 05/16/25 15:57
Sample Depth: 2'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	301		9.96		mg/Kg			05/20/25 20:16	1

Client Sample ID: CS 155

Lab Sample ID: 890-8176-10
Matrix: Solid
Date Collected: 05/15/25 11:34
Date Received: 05/16/25 15:57
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 14:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 09:01	05/20/25 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:53*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:01*	*05/20/25 14:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 14:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/21/25 23:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 23:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 23:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:47	05/21/25 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:47*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/20/25 07:47*	*05/21/25 23:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	231		9.98		mg/Kg			05/20/25 20:37	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8176-1	CS 153	104	91
890-8176-1 MS	CS 153	94	104
890-8176-1 MSD	CS 153	97	100
890-8176-2	CS 157	87	101
890-8176-3	CS 158	91	104
890-8176-4	CS 175	97	100
890-8176-5	CS 14	76	107
890-8176-6	CS 13	85	100
890-8176-7	CS 15	91	101
890-8176-8	CS 173	90	105
890-8176-9	CS 30	99	98
890-8176-10	CS 155	89	101
LCS 880-110498/1-A	Lab Control Sample	94	105
LCSD 880-110498/2-A	Lab Control Sample Dup	100	102
MB 880-110498/5-A	Method Blank	99	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8175-A-2-C MS	Matrix Spike	57 S1-	66 S1-
890-8175-A-2-D MSD	Matrix Spike Duplicate	95	87
890-8176-1	CS 153	96	95
890-8176-2	CS 157	91	91
890-8176-3	CS 158	96	95
890-8176-4	CS 175	94	95
890-8176-5	CS 14	96	95
890-8176-6	CS 13	98	97
890-8176-7	CS 15	96	98
890-8176-8	CS 173	91	91
890-8176-9	CS 30	89	89
890-8176-10	CS 155	90	89
LCS 880-110482/2-A	Lab Control Sample	112	101
LCSD 880-110482/3-A	Lab Control Sample Dup	95	104
MB 880-110482/1-A	Method Blank	101	100

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110498/5-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110498

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 09:01	05/20/25 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:27*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:27*	*1*

Lab Sample ID: LCS 880-110498/1-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110498

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09429		mg/Kg		94	70 - 130		
Toluene			0.100	0.08841		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08548		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1753		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09063		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-110498/2-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110498

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09354		mg/Kg		94	70 - 130	1	35
Toluene			0.100	0.09459		mg/Kg		95	70 - 130	7	35
Ethylbenzene			0.100	0.09209		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1917		mg/Kg		96	70 - 130	9	35
o-Xylene			0.100	0.09882		mg/Kg		99	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-8176-1 MS
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: CS 153
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.07962		mg/Kg		80	70 - 130		
Toluene	<0.00200	U	0.100	0.07033		mg/Kg		70	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8176-1 MS
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: CS 153
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.100	0.06619	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1347	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.06868	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-8176-1 MSD
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: CS 153
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08585		mg/Kg		86	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.08228		mg/Kg		82	70 - 130	16	35
Ethylbenzene	<0.00200	U F1	0.100	0.07826		mg/Kg		78	70 - 130	17	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1604		mg/Kg		80	70 - 130	17	35
o-Xylene	<0.00200	U F1	0.100	0.08219		mg/Kg		82	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110482/1-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110482

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:47	05/21/25 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/20/25 07:47*	*05/21/25 15:49*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/20/25 07:47*	*05/21/25 15:49*	*1*

Lab Sample ID: LCS 880-110482/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110482

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1058		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1022		mg/Kg		102	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110482/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110482

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-110482/3-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110482

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1070		mg/Kg		107	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1111		mg/Kg		111	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-8175-A-2-C MS
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	477.1	F1	mg/Kg		48	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	996	583.7	F1	mg/Kg		59	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	57	S1-	70 - 130
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: 890-8175-A-2-D MSD
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	738.5	F2	mg/Kg		74	70 - 130	43	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	996	738.4	F2	mg/Kg		74	70 - 130	23	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110438/1-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 18:15	1

Lab Sample ID: LCS 880-110438/2-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.5		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110438/3-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8176-9 MS
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: CS 30
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	301		249	571.8		mg/Kg		109	90 - 110		

Lab Sample ID: 890-8176-9 MSD
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: CS 30
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	301		249	571.6		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

GC VOA

Analysis Batch: 110490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	8021B	110498
890-8176-2	CS 157	Total/NA	Solid	8021B	110498
890-8176-3	CS 158	Total/NA	Solid	8021B	110498
890-8176-4	CS 175	Total/NA	Solid	8021B	110498
890-8176-5	CS 14	Total/NA	Solid	8021B	110498
890-8176-6	CS 13	Total/NA	Solid	8021B	110498
890-8176-7	CS 15	Total/NA	Solid	8021B	110498
890-8176-8	CS 173	Total/NA	Solid	8021B	110498
890-8176-9	CS 30	Total/NA	Solid	8021B	110498
890-8176-10	CS 155	Total/NA	Solid	8021B	110498
MB 880-110498/5-A	Method Blank	Total/NA	Solid	8021B	110498
LCS 880-110498/1-A	Lab Control Sample	Total/NA	Solid	8021B	110498
LCSD 880-110498/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110498
890-8176-1 MS	CS 153	Total/NA	Solid	8021B	110498
890-8176-1 MSD	CS 153	Total/NA	Solid	8021B	110498

Prep Batch: 110498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	5035	
890-8176-2	CS 157	Total/NA	Solid	5035	
890-8176-3	CS 158	Total/NA	Solid	5035	
890-8176-4	CS 175	Total/NA	Solid	5035	
890-8176-5	CS 14	Total/NA	Solid	5035	
890-8176-6	CS 13	Total/NA	Solid	5035	
890-8176-7	CS 15	Total/NA	Solid	5035	
890-8176-8	CS 173	Total/NA	Solid	5035	
890-8176-9	CS 30	Total/NA	Solid	5035	
890-8176-10	CS 155	Total/NA	Solid	5035	
MB 880-110498/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110498/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110498/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8176-1 MS	CS 153	Total/NA	Solid	5035	
890-8176-1 MSD	CS 153	Total/NA	Solid	5035	

Analysis Batch: 110676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	Total BTEX	
890-8176-2	CS 157	Total/NA	Solid	Total BTEX	
890-8176-3	CS 158	Total/NA	Solid	Total BTEX	
890-8176-4	CS 175	Total/NA	Solid	Total BTEX	
890-8176-5	CS 14	Total/NA	Solid	Total BTEX	
890-8176-6	CS 13	Total/NA	Solid	Total BTEX	
890-8176-7	CS 15	Total/NA	Solid	Total BTEX	
890-8176-8	CS 173	Total/NA	Solid	Total BTEX	
890-8176-9	CS 30	Total/NA	Solid	Total BTEX	
890-8176-10	CS 155	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

GC Semi VOA

Prep Batch: 110482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	8015NM Prep	
890-8176-2	CS 157	Total/NA	Solid	8015NM Prep	
890-8176-3	CS 158	Total/NA	Solid	8015NM Prep	
890-8176-4	CS 175	Total/NA	Solid	8015NM Prep	
890-8176-5	CS 14	Total/NA	Solid	8015NM Prep	
890-8176-6	CS 13	Total/NA	Solid	8015NM Prep	
890-8176-7	CS 15	Total/NA	Solid	8015NM Prep	
890-8176-8	CS 173	Total/NA	Solid	8015NM Prep	
890-8176-9	CS 30	Total/NA	Solid	8015NM Prep	
890-8176-10	CS 155	Total/NA	Solid	8015NM Prep	
MB 880-110482/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110482/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8175-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8175-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	8015B NM	110482
890-8176-2	CS 157	Total/NA	Solid	8015B NM	110482
890-8176-3	CS 158	Total/NA	Solid	8015B NM	110482
890-8176-4	CS 175	Total/NA	Solid	8015B NM	110482
890-8176-5	CS 14	Total/NA	Solid	8015B NM	110482
890-8176-6	CS 13	Total/NA	Solid	8015B NM	110482
890-8176-7	CS 15	Total/NA	Solid	8015B NM	110482
890-8176-8	CS 173	Total/NA	Solid	8015B NM	110482
890-8176-9	CS 30	Total/NA	Solid	8015B NM	110482
890-8176-10	CS 155	Total/NA	Solid	8015B NM	110482
MB 880-110482/1-A	Method Blank	Total/NA	Solid	8015B NM	110482
LCS 880-110482/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110482
LCSD 880-110482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110482
890-8175-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110482
890-8175-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110482

Analysis Batch: 110730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Total/NA	Solid	8015 NM	
890-8176-2	CS 157	Total/NA	Solid	8015 NM	
890-8176-3	CS 158	Total/NA	Solid	8015 NM	
890-8176-4	CS 175	Total/NA	Solid	8015 NM	
890-8176-5	CS 14	Total/NA	Solid	8015 NM	
890-8176-6	CS 13	Total/NA	Solid	8015 NM	
890-8176-7	CS 15	Total/NA	Solid	8015 NM	
890-8176-8	CS 173	Total/NA	Solid	8015 NM	
890-8176-9	CS 30	Total/NA	Solid	8015 NM	
890-8176-10	CS 155	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

HPLC/IC

Leach Batch: 110438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Soluble	Solid	DI Leach	
890-8176-2	CS 157	Soluble	Solid	DI Leach	
890-8176-3	CS 158	Soluble	Solid	DI Leach	
890-8176-4	CS 175	Soluble	Solid	DI Leach	
890-8176-5	CS 14	Soluble	Solid	DI Leach	
890-8176-6	CS 13	Soluble	Solid	DI Leach	
890-8176-7	CS 15	Soluble	Solid	DI Leach	
890-8176-8	CS 173	Soluble	Solid	DI Leach	
890-8176-9	CS 30	Soluble	Solid	DI Leach	
890-8176-10	CS 155	Soluble	Solid	DI Leach	
MB 880-110438/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110438/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8176-9 MS	CS 30	Soluble	Solid	DI Leach	
890-8176-9 MSD	CS 30	Soluble	Solid	DI Leach	

Analysis Batch: 110534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8176-1	CS 153	Soluble	Solid	300.0	110438
890-8176-2	CS 157	Soluble	Solid	300.0	110438
890-8176-3	CS 158	Soluble	Solid	300.0	110438
890-8176-4	CS 175	Soluble	Solid	300.0	110438
890-8176-5	CS 14	Soluble	Solid	300.0	110438
890-8176-6	CS 13	Soluble	Solid	300.0	110438
890-8176-7	CS 15	Soluble	Solid	300.0	110438
890-8176-8	CS 173	Soluble	Solid	300.0	110438
890-8176-9	CS 30	Soluble	Solid	300.0	110438
890-8176-10	CS 155	Soluble	Solid	300.0	110438
MB 880-110438/1-A	Method Blank	Soluble	Solid	300.0	110438
LCS 880-110438/2-A	Lab Control Sample	Soluble	Solid	300.0	110438
LCSD 880-110438/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110438
890-8176-9 MS	CS 30	Soluble	Solid	300.0	110438
890-8176-9 MSD	CS 30	Soluble	Solid	300.0	110438

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 153

Date Collected: 05/15/25 11:36
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 11:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 11:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 21:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 21:05	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:05	SMC	EET MID

Client Sample ID: CS 157

Date Collected: 05/15/25 11:27
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 12:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 12:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 21:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 21:38	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:12	SMC	EET MID

Client Sample ID: CS 158

Date Collected: 05/15/25 11:23
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 12:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 21:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 21:54	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:19	SMC	EET MID

Client Sample ID: CS 175

Date Collected: 05/15/25 10:02
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 12:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 12:50	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 175

Date Collected: 05/15/25 10:02
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110730	05/21/25 22:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 22:10	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:40	SMC	EET MID

Client Sample ID: CS 14

Date Collected: 05/15/25 08:52
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 13:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 22:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 22:27	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:47	SMC	EET MID

Client Sample ID: CS 13

Date Collected: 05/15/25 08:48
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 13:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 13:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 22:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 22:42	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 19:54	SMC	EET MID

Client Sample ID: CS 15

Date Collected: 05/15/25 08:57
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 22:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 22:59	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Client Sample ID: CS 15

Date Collected: 05/15/25 08:57
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:01	SMC	EET MID

Client Sample ID: CS 173

Date Collected: 05/15/25 10:31
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 14:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 14:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 23:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 23:15	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:08	SMC	EET MID

Client Sample ID: CS 30

Date Collected: 05/15/25 09:39
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 14:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 23:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 23:32	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:16	SMC	EET MID

Client Sample ID: CS 155

Date Collected: 05/15/25 11:34
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8176-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 14:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110676	05/20/25 14:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			110730	05/21/25 23:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/21/25 23:47	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:37	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8176-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8176-1	CS 153	Solid	05/15/25 11:36	05/16/25 15:57	3'
890-8176-2	CS 157	Solid	05/15/25 11:27	05/16/25 15:57	3'
890-8176-3	CS 158	Solid	05/15/25 11:23	05/16/25 15:57	3'
890-8176-4	CS 175	Solid	05/15/25 10:02	05/16/25 15:57	3'
890-8176-5	CS 14	Solid	05/15/25 08:52	05/16/25 15:57	1'
890-8176-6	CS 13	Solid	05/15/25 08:48	05/16/25 15:57	1'
890-8176-7	CS 15	Solid	05/15/25 08:57	05/16/25 15:57	1'
890-8176-8	CS 173	Solid	05/15/25 10:31	05/16/25 15:57	3'
890-8176-9	CS 30	Solid	05/15/25 09:39	05/16/25 15:57	2'
890-8176-10	CS 155	Solid	05/15/25 11:34	05/16/25 15:57	3'

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5/22/2025

Chain of Custody

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☒ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TWmeter	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

ANALYSIS REQUEST

890-8176 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Cool	Cool	Cool	Sample Comments
								BTEX 8021	TPH 8015	Chloride 300	
CS 153	Soil	05/15/25	11:36	3'	C	1		✓	✓	✓	
CS 157			11:27	3'							
CS 158			11:23	3'							
CS 175			10:00	3'							
CS 14			8:52	1'							
CS 13			8:48	1'							
CS 19			8:57	1'							
CS 173			10:31	3'							
CS 30			9:39	2'							
CS 155	↓	↓	11:31	3'	↓	↓		↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Trevor Wargo	[signature]	5/16 1557			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5152.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8176-1
Address: 1211 W. Florida Ave,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 153 (890-8176-1)	5/15/25	11:36 Mountain	G	Solid			X	X	X	X	X	1	
CS 157 (890-8176-2)	5/15/25	11:27 Mountain	G	Solid			X	X	X	X	X	1	
CS 158 (890-8176-3)	5/15/25	11:23 Mountain	G	Solid			X	X	X	X	X	1	
CS 175 (890-8176-4)	5/15/25	10:02 Mountain	G	Solid			X	X	X	X	X	1	
CS 14 (890-8176-5)	5/15/25	08:52 Mountain	G	Solid			X	X	X	X	X	1	
CS 13 (890-8176-6)	5/15/25	08:48 Mountain	G	Solid			X	X	X	X	X	1	
CS 15 (890-8176-7)	5/15/25	08:57 Mountain	G	Solid			X	X	X	X	X	1	
CS 173 (890-8176-8)	5/15/25	10:31 Mountain	G	Solid			X	X	X	X	X	1	
CS 30 (890-8176-9)	5/15/25	09:39 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/19 1630				
2	Relinquished by:	Date/Time:	Company	Received by: Teddy Brandell Lee	5/20/25 0800	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM
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5/22/2025
Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5151.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8175-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 90 (890-8175-10)	5/15/25	15:18 Mountain	G	Solid			X	X	X	X	X	1	

Other: N/A

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	5/19 1630		[signature]		
	Relinquished by:	Date/Time:	Company	Received by: Teddy Randolph	Date/Time: 5/20/25 0800	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8176-1
SDG Number: 03D3836001

Login Number: 8176
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8176-1
SDG Number: 03D3836001

Login Number: 8176
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:42:05 AM

JOB DESCRIPTION

Flatland FNR Frac line
03d3836001

JOB NUMBER

890-8177-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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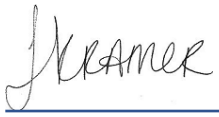
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:42:05 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR Frac line

Laboratory Job ID: 890-8177-1
SDG: 03d3836001

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Definitions/Glossary

Client: Ensolum Job ID: 890-8177-1
Project/Site: Flatland FNR Frac line SDG: 03d3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8177-1
Project: Flatland FNR Frac line

Job ID: 890-8177-1 Eurofins Carlsbad

Job Narrative
890-8177-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 20 (890-8177-1), CS 34 (890-8177-2), CS 60 (890-8177-3), CS 62 (890-8177-4), CS 63 (890-8177-5), CS 137 (890-8177-6), CS 151 (890-8177-7), CS 86 (890-8177-8), CS 87 (890-8177-9) and CS 97 (890-8177-10).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-110498 and analytical batch 880-110490 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.

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-8175-A-2-C MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-110482 and analytical batch 880-110685 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110451 and analytical batch 880-110505 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.

The associated samples are: CS 86 (890-8177-8), CS 87 (890-8177-9), CS 97 (890-8177-10), (890-8173-A-1-D), (890-8173-A-1-E MS) and (890-8173-A-1-F MSD).

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: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 20

Lab Sample ID: 890-8177-1
Matrix: Solid
Date Collected: 05/16/25 10:35
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 18:00	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:00*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 18:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/22/25 00:04	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/22/25 00:04	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/22/25 00:04	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/25 07:47	05/22/25 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/20/25 07:47*	*05/22/25 00:04*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/20/25 07:47*	*05/22/25 00:04*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**404**		10.1		mg/Kg			05/20/25 13:37	1

Client Sample ID: CS 34

Lab Sample ID: 890-8177-2
Matrix: Solid
Date Collected: 05/16/25 10:37
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:01	05/20/25 18:20	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:01	05/20/25 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:20*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 34

Lab Sample ID: 890-8177-2
Matrix: Solid
Date Collected: 05/16/25 10:37
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 18:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/22/25 02:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/20/25 07:59	05/22/25 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/20/25 07:59	05/22/25 02:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/20/25 07:59	05/22/25 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/20/25 07:59*	*05/22/25 02:10*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/20/25 07:59*	*05/22/25 02:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**575**		9.96	mg/Kg			05/20/25 13:44	1

Client Sample ID: CS 60

Lab Sample ID: 890-8177-3
Matrix: Solid
Date Collected: 05/16/25 10:38
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:01	05/20/25 18:41	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/20/25 09:01	05/20/25 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:41*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*05/20/25 09:01*	*05/20/25 18:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/20/25 18:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/22/25 02:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 60

Lab Sample ID: 890-8177-3
Matrix: Solid
Date Collected: 05/16/25 10:38
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 02:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 02:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/20/25 07:59*	*05/22/25 02:56*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/20/25 07:59*	*05/22/25 02:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**182**		9.98		mg/Kg			05/20/25 14:04	1

Client Sample ID: CS 62

Lab Sample ID: 890-8177-4
Matrix: Solid
Date Collected: 05/16/25 10:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 19:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:02*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/20/25 19:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 03:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 03:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 03:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:12*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:12*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 62

Lab Sample ID: 890-8177-4
Matrix: Solid
Date Collected: 05/16/25 10:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	269		10.0		mg/Kg			05/20/25 14:31	1

Client Sample ID: CS 63

Lab Sample ID: 890-8177-5
Matrix: Solid
Date Collected: 05/16/25 10:40
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:22*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 19:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/22/25 03:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 03:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 03:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:28*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	392		10.1		mg/Kg			05/20/25 14:38	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 137

Lab Sample ID: 890-8177-6
Matrix: Solid
Date Collected: 05/16/25 10:02
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 19:43	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/20/25 09:01	05/20/25 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:43*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 19:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/20/25 19:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 03:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 03:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 03:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:44*	*1*
o-Terphenyl	*101*		*70 - 130*	*05/20/25 07:59*	*05/22/25 03:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**237**		10.0		mg/Kg			05/20/25 14:45	1

Client Sample ID: CS 151

Lab Sample ID: 890-8177-7
Matrix: Solid
Date Collected: 05/16/25 09:31
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:01	05/20/25 20:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 09:01	05/20/25 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:03*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 151

Lab Sample ID: 890-8177-7
Matrix: Solid
Date Collected: 05/16/25 09:31
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:03*	*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			05/20/25 20:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/22/25 04:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/20/25 07:59	05/22/25 04:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/20/25 07:59	05/22/25 04:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/20/25 07:59	05/22/25 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*109*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:01*	*1*
o-Terphenyl	*98*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**699**		10.1	mg/Kg			05/20/25 14:52	1

Client Sample ID: CS 86

Lab Sample ID: 890-8177-8
Matrix: Solid
Date Collected: 05/16/25 11:51
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:01	05/20/25 20:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 09:01	05/20/25 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:24*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:24*	*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			05/20/25 20:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/22/25 04:16	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 86

Lab Sample ID: 890-8177-8
Matrix: Solid
Date Collected: 05/16/25 11:51
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 04:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/20/25 07:59	05/22/25 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:16*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**121**		10.1		mg/Kg			05/20/25 10:42	1

Client Sample ID: CS 87

Lab Sample ID: 890-8177-9
Matrix: Solid
Date Collected: 05/16/25 11:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 20:44	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 09:01	05/20/25 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:44*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 20:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 20:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 04:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 04:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 04:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:33*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:33*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 87

Lab Sample ID: 890-8177-9
Matrix: Solid
Date Collected: 05/16/25 11:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	481		9.96		mg/Kg			05/20/25 10:50	1

Client Sample ID: CS 97

Lab Sample ID: 890-8177-10
Matrix: Solid
Date Collected: 05/16/25 11:39
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:01	05/20/25 21:05	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 09:01	05/20/25 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:01*	*05/20/25 21:05*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/20/25 09:01*	*05/20/25 21:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 21:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 04:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 04:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 04:48	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:48*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 04:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.8		9.92		mg/Kg			05/20/25 10:57	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8176-A-1-C MS	Matrix Spike	94	104
890-8176-A-1-D MSD	Matrix Spike Duplicate	97	100
890-8177-1	CS 20	100	92
890-8177-2	CS 34	87	108
890-8177-3	CS 60	86	106
890-8177-4	CS 62	91	105
890-8177-5	CS 63	91	99
890-8177-6	CS 137	90	100
890-8177-7	CS 151	91	105
890-8177-8	CS 86	99	100
890-8177-9	CS 87	88	99
890-8177-10	CS 97	91	97
LCS 880-110498/1-A	Lab Control Sample	94	105
LCSD 880-110498/2-A	Lab Control Sample Dup	100	102
MB 880-110498/5-A	Method Blank	99	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-8175-A-2-C MS	Matrix Spike	57 S1-	66 S1-
890-8175-A-2-D MSD	Matrix Spike Duplicate	95	87
890-8177-1	CS 20	90	90
890-8177-2	CS 34	106	98
890-8177-2 MS	CS 34	96	95
890-8177-2 MSD	CS 34	96	94
890-8177-3	CS 60	112	100
890-8177-4	CS 62	111	96
890-8177-5	CS 63	106	97
890-8177-6	CS 137	111	101
890-8177-7	CS 151	109	98
890-8177-8	CS 86	102	95
890-8177-9	CS 87	102	92
890-8177-10	CS 97	103	96
LCS 880-110482/2-A	Lab Control Sample	112	101
LCS 880-110483/2-A	Lab Control Sample	108	107
LCSD 880-110482/3-A	Lab Control Sample Dup	95	104
LCSD 880-110483/3-A	Lab Control Sample Dup	106	105
MB 880-110482/1-A	Method Blank	101	100
MB 880-110483/1-A	Method Blank	98	90

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110498/5-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110498

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:01	05/20/25 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 09:01	05/20/25 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:27*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*05/20/25 09:01*	*05/20/25 11:27*	*1*

Lab Sample ID: LCS 880-110498/1-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110498

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09429		mg/Kg		94	70 - 130		
Toluene			0.100	0.08841		mg/Kg		88	70 - 130		
Ethylbenzene			0.100	0.08548		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1753		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.09063		mg/Kg		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-110498/2-A
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110498

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09354		mg/Kg		94	70 - 130	1	35
Toluene			0.100	0.09459		mg/Kg		95	70 - 130	7	35
Ethylbenzene			0.100	0.09209		mg/Kg		92	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.1917		mg/Kg		96	70 - 130	9	35
o-Xylene			0.100	0.09882		mg/Kg		99	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-8176-A-1-C MS
Matrix: Solid
Analysis Batch: 110490

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.07962		mg/Kg		80	70 - 130		
Toluene	<0.00200	U	0.100	0.07033		mg/Kg		70	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8176-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110490 — **Prep Batch: 110498**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.100	0.06619	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1347	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.06868	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-8176-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110490 — **Prep Batch: 110498**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08585		mg/Kg		86	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.08228		mg/Kg		82	70 - 130	16	35
Ethylbenzene	<0.00200	U F1	0.100	0.07826		mg/Kg		78	70 - 130	17	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1604		mg/Kg		80	70 - 130	17	35
o-Xylene	<0.00200	U F1	0.100	0.08219		mg/Kg		82	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110482/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110685 — **Prep Batch: 110482**

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/20/25 07:47	05/21/25 15:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/20/25 07:47	05/21/25 15:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/20/25 07:47	05/21/25 15:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/20/25 07:47*	*05/21/25 15:49*	*1*
o-Terphenyl	*100*		*70 - 130*	*05/20/25 07:47*	*05/21/25 15:49*	*1*

Lab Sample ID: LCS 880-110482/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110685 — **Prep Batch: 110482**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1058		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1022		mg/Kg		102	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110482/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110482

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-110482/3-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110482

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1070		mg/Kg		107	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1111		mg/Kg		111	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 890-8175-A-2-C MS
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	477.1	F1	mg/Kg		48	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	996	583.7	F1	mg/Kg		59	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	57	S1-	70 - 130
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: 890-8175-A-2-D MSD
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110482

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1 F2	996	738.5	F2	mg/Kg		74	70 - 130	43	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1 F2	996	738.4	F2	mg/Kg		74	70 - 130	23	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-110483/1-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*

Lab Sample ID: LCS 880-110483/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1103		mg/Kg		110	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*108*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-110483/3-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1077		mg/Kg		108	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1017		mg/Kg		102	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 890-8177-2 MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: CS 34
Prep Type: Total/NA
Prep Batch: 110483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	861.0		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	999	887.1		mg/Kg		89	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8177-2 MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: CS 34
Prep Type: Total/NA
Prep Batch: 110483

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: 890-8177-2 MSD
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: CS 34
Prep Type: Total/NA
Prep Batch: 110483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	851.4		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	899.3		mg/Kg		90	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*96*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110451/1-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 10:00	1

Lab Sample ID: LCS 880-110451/2-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	250.7		mg/Kg		100	90 - 110		

Lab Sample ID: LCSD 880-110451/3-A
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	250.4		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-8173-A-1-E MS
Matrix: Solid
Analysis Batch: 110505

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	107	F1	252	385.7	F1	mg/Kg		111	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-8173-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110505

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	107	F1	252	392.4	F1	mg/Kg		114	90 - 110	2	20

Lab Sample ID: MB 880-110448/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 11:21	1

Lab Sample ID: LCS 880-110448/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.7		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110448/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8174-A-10-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	475		253	738.0		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8174-A-10-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110516

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	475		253	732.1		mg/Kg		102	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

GC VOA

Analysis Batch: 110490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	8021B	110498
890-8177-2	CS 34	Total/NA	Solid	8021B	110498
890-8177-3	CS 60	Total/NA	Solid	8021B	110498
890-8177-4	CS 62	Total/NA	Solid	8021B	110498
890-8177-5	CS 63	Total/NA	Solid	8021B	110498
890-8177-6	CS 137	Total/NA	Solid	8021B	110498
890-8177-7	CS 151	Total/NA	Solid	8021B	110498
890-8177-8	CS 86	Total/NA	Solid	8021B	110498
890-8177-9	CS 87	Total/NA	Solid	8021B	110498
890-8177-10	CS 97	Total/NA	Solid	8021B	110498
MB 880-110498/5-A	Method Blank	Total/NA	Solid	8021B	110498
LCS 880-110498/1-A	Lab Control Sample	Total/NA	Solid	8021B	110498
LCSD 880-110498/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110498
890-8176-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	110498
890-8176-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	110498

Prep Batch: 110498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	5035	
890-8177-2	CS 34	Total/NA	Solid	5035	
890-8177-3	CS 60	Total/NA	Solid	5035	
890-8177-4	CS 62	Total/NA	Solid	5035	
890-8177-5	CS 63	Total/NA	Solid	5035	
890-8177-6	CS 137	Total/NA	Solid	5035	
890-8177-7	CS 151	Total/NA	Solid	5035	
890-8177-8	CS 86	Total/NA	Solid	5035	
890-8177-9	CS 87	Total/NA	Solid	5035	
890-8177-10	CS 97	Total/NA	Solid	5035	
MB 880-110498/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110498/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110498/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8176-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-8176-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 110677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	Total BTEX	
890-8177-2	CS 34	Total/NA	Solid	Total BTEX	
890-8177-3	CS 60	Total/NA	Solid	Total BTEX	
890-8177-4	CS 62	Total/NA	Solid	Total BTEX	
890-8177-5	CS 63	Total/NA	Solid	Total BTEX	
890-8177-6	CS 137	Total/NA	Solid	Total BTEX	
890-8177-7	CS 151	Total/NA	Solid	Total BTEX	
890-8177-8	CS 86	Total/NA	Solid	Total BTEX	
890-8177-9	CS 87	Total/NA	Solid	Total BTEX	
890-8177-10	CS 97	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

GC Semi VOA

Prep Batch: 110482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	8015NM Prep	
MB 880-110482/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110482/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8175-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8175-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 110483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-2	CS 34	Total/NA	Solid	8015NM Prep	
890-8177-3	CS 60	Total/NA	Solid	8015NM Prep	
890-8177-4	CS 62	Total/NA	Solid	8015NM Prep	
890-8177-5	CS 63	Total/NA	Solid	8015NM Prep	
890-8177-6	CS 137	Total/NA	Solid	8015NM Prep	
890-8177-7	CS 151	Total/NA	Solid	8015NM Prep	
890-8177-8	CS 86	Total/NA	Solid	8015NM Prep	
890-8177-9	CS 87	Total/NA	Solid	8015NM Prep	
890-8177-10	CS 97	Total/NA	Solid	8015NM Prep	
MB 880-110483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8177-2 MS	CS 34	Total/NA	Solid	8015NM Prep	
890-8177-2 MSD	CS 34	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	8015B NM	110482
MB 880-110482/1-A	Method Blank	Total/NA	Solid	8015B NM	110482
LCS 880-110482/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110482
LCSD 880-110482/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110482
890-8175-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110482
890-8175-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110482

Analysis Batch: 110687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-2	CS 34	Total/NA	Solid	8015B NM	110483
890-8177-3	CS 60	Total/NA	Solid	8015B NM	110483
890-8177-4	CS 62	Total/NA	Solid	8015B NM	110483
890-8177-5	CS 63	Total/NA	Solid	8015B NM	110483
890-8177-6	CS 137	Total/NA	Solid	8015B NM	110483
890-8177-7	CS 151	Total/NA	Solid	8015B NM	110483
890-8177-8	CS 86	Total/NA	Solid	8015B NM	110483
890-8177-9	CS 87	Total/NA	Solid	8015B NM	110483
890-8177-10	CS 97	Total/NA	Solid	8015B NM	110483
MB 880-110483/1-A	Method Blank	Total/NA	Solid	8015B NM	110483
LCS 880-110483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110483
LCSD 880-110483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110483
890-8177-2 MS	CS 34	Total/NA	Solid	8015B NM	110483
890-8177-2 MSD	CS 34	Total/NA	Solid	8015B NM	110483

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

GC Semi VOA

Analysis Batch: 110726

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Total/NA	Solid	8015 NM	
890-8177-2	CS 34	Total/NA	Solid	8015 NM	
890-8177-3	CS 60	Total/NA	Solid	8015 NM	
890-8177-4	CS 62	Total/NA	Solid	8015 NM	
890-8177-5	CS 63	Total/NA	Solid	8015 NM	
890-8177-6	CS 137	Total/NA	Solid	8015 NM	
890-8177-7	CS 151	Total/NA	Solid	8015 NM	
890-8177-8	CS 86	Total/NA	Solid	8015 NM	
890-8177-9	CS 87	Total/NA	Solid	8015 NM	
890-8177-10	CS 97	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 110448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Soluble	Solid	DI Leach	
890-8177-2	CS 34	Soluble	Solid	DI Leach	
890-8177-3	CS 60	Soluble	Solid	DI Leach	
890-8177-4	CS 62	Soluble	Solid	DI Leach	
890-8177-5	CS 63	Soluble	Solid	DI Leach	
890-8177-6	CS 137	Soluble	Solid	DI Leach	
890-8177-7	CS 151	Soluble	Solid	DI Leach	
MB 880-110448/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8174-A-10-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8174-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 110451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-8	CS 86	Soluble	Solid	DI Leach	
890-8177-9	CS 87	Soluble	Solid	DI Leach	
890-8177-10	CS 97	Soluble	Solid	DI Leach	
MB 880-110451/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110451/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110451/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8173-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8173-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 110505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-8	CS 86	Soluble	Solid	300.0	110451
890-8177-9	CS 87	Soluble	Solid	300.0	110451
890-8177-10	CS 97	Soluble	Solid	300.0	110451
MB 880-110451/1-A	Method Blank	Soluble	Solid	300.0	110451
LCS 880-110451/2-A	Lab Control Sample	Soluble	Solid	300.0	110451
LCSD 880-110451/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110451
890-8173-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	110451
890-8173-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110451

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

HPLC/IC

Analysis Batch: 110516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8177-1	CS 20	Soluble	Solid	300.0	110448
890-8177-2	CS 34	Soluble	Solid	300.0	110448
890-8177-3	CS 60	Soluble	Solid	300.0	110448
890-8177-4	CS 62	Soluble	Solid	300.0	110448
890-8177-5	CS 63	Soluble	Solid	300.0	110448
890-8177-6	CS 137	Soluble	Solid	300.0	110448
890-8177-7	CS 151	Soluble	Solid	300.0	110448
MB 880-110448/1-A	Method Blank	Soluble	Solid	300.0	110448
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	300.0	110448
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110448
890-8174-A-10-B MS	Matrix Spike	Soluble	Solid	300.0	110448
890-8174-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110448

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 20

Lab Sample ID: 890-8177-1
Matrix: Solid
Date Collected: 05/16/25 10:35
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 18:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 18:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 00:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110482	05/20/25 07:47	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 00:04	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:37	SMC	EET MID

Client Sample ID: CS 34

Lab Sample ID: 890-8177-2
Matrix: Solid
Date Collected: 05/16/25 10:37
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 18:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 18:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 02:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 02:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 13:44	SMC	EET MID

Client Sample ID: CS 60

Lab Sample ID: 890-8177-3
Matrix: Solid
Date Collected: 05/16/25 10:38
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 18:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 18:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 02:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 02:56	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:04	SMC	EET MID

Client Sample ID: CS 62

Lab Sample ID: 890-8177-4
Matrix: Solid
Date Collected: 05/16/25 10:45
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 19:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 19:02	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 62

Lab Sample ID: 890-8177-4
Matrix: Solid
Date Collected: 05/16/25 10:45
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110726	05/22/25 03:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 03:12	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:31	SMC	EET MID

Client Sample ID: CS 63

Lab Sample ID: 890-8177-5
Matrix: Solid
Date Collected: 05/16/25 10:40
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 19:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 19:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 03:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 03:28	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:38	SMC	EET MID

Client Sample ID: CS 137

Lab Sample ID: 890-8177-6
Matrix: Solid
Date Collected: 05/16/25 10:02
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 19:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 19:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 03:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 03:44	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:45	SMC	EET MID

Client Sample ID: CS 151

Lab Sample ID: 890-8177-7
Matrix: Solid
Date Collected: 05/16/25 09:31
Date Received: 05/16/25 15:57

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 20:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 04:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 04:01	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Client Sample ID: CS 151

Date Collected: 05/16/25 09:31
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8177-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:52	SMC	EET MID

Client Sample ID: CS 86

Date Collected: 05/16/25 11:51
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8177-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 20:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 20:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 04:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 04:16	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110451	05/19/25 14:02	SA	EET MID
Soluble	Analysis	300.0		1			110505	05/20/25 10:42	SMC	EET MID

Client Sample ID: CS 87

Date Collected: 05/16/25 11:45
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8177-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 20:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 20:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 04:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 04:33	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110451	05/19/25 14:02	SA	EET MID
Soluble	Analysis	300.0		1			110505	05/20/25 10:50	SMC	EET MID

Client Sample ID: CS 97

Date Collected: 05/16/25 11:39
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8177-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110498	05/20/25 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110490	05/20/25 21:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110677	05/20/25 21:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			110726	05/22/25 04:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 04:48	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110451	05/19/25 14:02	SA	EET MID
Soluble	Analysis	300.0		1			110505	05/20/25 10:57	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac line

Job ID: 890-8177-1
SDG: 03d3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8177-1	CS 20	Solid	05/16/25 10:35	05/16/25 15:57	1
890-8177-2	CS 34	Solid	05/16/25 10:37	05/16/25 15:57	1
890-8177-3	CS 60	Solid	05/16/25 10:38	05/16/25 15:57	1
890-8177-4	CS 62	Solid	05/16/25 10:45	05/16/25 15:57	1
890-8177-5	CS 63	Solid	05/16/25 10:40	05/16/25 15:57	1
890-8177-6	CS 137	Solid	05/16/25 10:02	05/16/25 15:57	2
890-8177-7	CS 151	Solid	05/16/25 09:31	05/16/25 15:57	3
890-8177-8	CS 86	Solid	05/16/25 11:51	05/16/25 15:57	1
890-8177-9	CS 87	Solid	05/16/25 11:45	05/16/25 15:57	1
890-8177-10	CS 97	Solid	05/16/25 11:39	05/16/25 15:57	2

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5/22/2025

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

890-8177 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☒ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TNmac
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	TPH 8015	Chloride 300	Sample Comments
CS20	S	05-16-25	1035	1	C	1		✓	✓	✓	
CS34			1037					✓	✓	✓	
CS60			1038					✓	✓	✓	
CS62			1045					✓	✓	✓	
CS63			1040	↓				✓	✓	✓	
CS137			1002	2				✓	✓	✓	
CS151			0931	3				✓	✓	✓	
CS86			1151	1				✓	✓	✓	
CS87			1145	1				✓	✓	✓	
CS97	↓	↓	1139	2	↓	↓		✓	✓	✓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Trevor Wargo		5/16 1557	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5153.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8177-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Flatland FNR Frac line	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 20 (890-8177-1)	5/16/25	10:35 Mountain	G	Solid			X	X	X	X	X	1	
CS 34 (890-8177-2)	5/16/25	10:37 Mountain	G	Solid			X	X	X	X	X	1	
CS 60 (890-8177-3)	5/16/25	10:38 Mountain	G	Solid			X	X	X	X	X	1	
CS 62 (890-8177-4)	5/16/25	10:45 Mountain	G	Solid			X	X	X	X	X	1	
CS 63 (890-8177-5)	5/16/25	10:40 Mountain	G	Solid			X	X	X	X	X	1	
CS 137 (890-8177-6)	5/16/25	10:02 Mountain	G	Solid			X	X	X	X	X	1	
CS 151 (890-8177-7)	5/16/25	09:31 Mountain	G	Solid			X	X	X	X	X	1	
CS 86 (890-8177-8)	5/16/25	11:51 Mountain	G	Solid			X	X	X	X	X	1	
CS 87 (890-8177-9)	5/16/25	11:45 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 5/19 1630	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time:	Company	Received by: Teddy Hall/FE	Date/Time: 5/20/25 0800	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5153.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8177-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: Flatland FNR Frac line	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 97 (890-8177-10)	5/16/25	11:39 Mountain	G	Solid			X	X	X	X	X	1	

Analysis Requested

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/19 1630				
2	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 5/20/25 0800	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8177-1
SDG Number: 03d3836001

Login Number: 8177
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8177-1
SDG Number: 03d3836001

Login Number: 8177
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:43:02 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8178-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

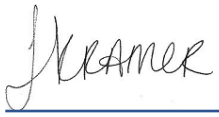
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:43:02 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8178-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8178-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1 Eurofins Carlsbad

Job Narrative
890-8178-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 151 (890-8178-1), CS 152 (890-8178-2), CS 153 (890-8178-3), CS 177 (890-8178-4), CS 158 (890-8178-5), CS 61 (890-8178-6), CS 42 (890-8178-7), CS 41 (890-8178-8), CS 37 (890-8178-9), CS 38 (890-8178-10) and CS 168 (890-8178-11).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110499 and analytical batch 880-110543 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 151

Date Collected: 05/14/25 09:28
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8178-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1 F2	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
Toluene	<0.00200	U F1 F2	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
Ethylbenzene	<0.00200	U F1 F2	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.00399		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
o-Xylene	<0.00200	U F1 F2	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:48	1
Xylenes, Total	<0.00399	U F1 F2	0.00399		mg/Kg		05/20/25 09:03	05/20/25 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:03*	*05/20/25 17:48*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*05/20/25 09:03*	*05/20/25 17:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 17:48	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 05:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 05:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 05:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:05*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.5**		9.98		mg/Kg			05/20/25 16:01	1

Client Sample ID: CS 152

Date Collected: 05/14/25 09:30
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8178-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 18:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:03	05/20/25 18:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 152

Date Collected: 05/14/25 09:30
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8178-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 18:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			05/22/25 05:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		05/20/25 07:59	05/22/25 05:36	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		05/20/25 07:59	05/22/25 05:36	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		05/20/25 07:59	05/22/25 05:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:36*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**233**		10.0	mg/Kg			05/20/25 16:08	1

Client Sample ID: CS 153

Date Collected: 05/14/25 09:32
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8178-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 09:03	05/20/25 18:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 09:03	05/20/25 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:29*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:29*	*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			05/20/25 18:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/22/25 05:52	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 153

Date Collected: 05/14/25 09:32
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8178-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 05:52	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 05:52	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 05:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:52*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 05:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**283**		10.0		mg/Kg			05/20/25 16:29	1

Client Sample ID: CS 177

Date Collected: 05/14/25 09:01
Date Received: 05/16/25 15:57
Sample Depth: 2

Lab Sample ID: 890-8178-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 18:49	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 09:03	05/20/25 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:49*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*05/20/25 09:03*	*05/20/25 18:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 18:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/22/25 06:08	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 06:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 06:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:08*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 177

Lab Sample ID: 890-8178-4
Matrix: Solid
Date Collected: 05/14/25 09:01
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	454		10.0		mg/Kg			05/20/25 16:36	1

Client Sample ID: CS 158

Lab Sample ID: 890-8178-5
Matrix: Solid
Date Collected: 05/14/25 10:35
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 09:03	05/20/25 19:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 09:03	05/20/25 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/20/25 09:03*	*05/20/25 19:10*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/20/25 09:03*	*05/20/25 19:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/20/25 19:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 06:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 06:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 06:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 06:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:25*	*1*
o-Terphenyl	*94*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	515		9.94		mg/Kg			05/20/25 16:58	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 61

Lab Sample ID: 890-8178-6
Matrix: Solid
Date Collected: 05/14/25 11:13
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
Ethylbenzene	**0.00243**		0.00199		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 09:03	05/20/25 22:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 09:03	05/20/25 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:17*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/20/25 22:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 06:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 06:40	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 06:40	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:40*	*1*
o-Terphenyl	*99*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		9.92		mg/Kg			05/20/25 17:05	1

Client Sample ID: CS 42

Lab Sample ID: 890-8178-7
Matrix: Solid
Date Collected: 05/14/25 11:35
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/20/25 09:03	05/20/25 22:37	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/20/25 09:03	05/20/25 22:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:37*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 42

Lab Sample ID: 890-8178-7
Matrix: Solid
Date Collected: 05/14/25 11:35
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/20/25 22:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			05/22/25 06:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		05/20/25 07:59	05/22/25 06:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		05/20/25 07:59	05/22/25 06:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/20/25 07:59	05/22/25 06:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*105*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:57*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:59*	*05/22/25 06:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**162**		10.1	mg/Kg			05/20/25 17:12	1

Client Sample ID: CS 41

Lab Sample ID: 890-8178-8
Matrix: Solid
Date Collected: 05/14/25 12:51
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
o-Xylene	**0.00345**		0.00200	mg/Kg		05/20/25 09:03	05/20/25 22:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/20/25 09:03	05/20/25 22:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:58*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/20/25 09:03*	*05/20/25 22:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/20/25 22:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/22/25 07:13	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 41

Lab Sample ID: 890-8178-8
Matrix: Solid
Date Collected: 05/14/25 12:51
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 07:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 07:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 07:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:13*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		9.98		mg/Kg			05/20/25 17:19	1

Client Sample ID: CS 37

Lab Sample ID: 890-8178-9
Matrix: Solid
Date Collected: 05/14/25 13:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:18	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 09:03	05/20/25 23:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:18*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 23:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 07:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 07:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 07:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 07:59	05/22/25 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:30*	*1*
o-Terphenyl	*96*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:30*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 37

Lab Sample ID: 890-8178-9
Matrix: Solid
Date Collected: 05/14/25 13:45
Date Received: 05/16/25 15:57
Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	254		9.92		mg/Kg			05/20/25 17:26	1

Client Sample ID: CS 38

Lab Sample ID: 890-8178-10
Matrix: Solid
Date Collected: 05/14/25 13:43
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 09:03	05/20/25 23:39	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 09:03	05/20/25 23:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:39*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 23:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/22/25 07:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 07:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 07:45	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/20/25 07:59	05/22/25 07:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:45*	*1*
o-Terphenyl	*95*		*70 - 130*	*05/20/25 07:59*	*05/22/25 07:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	167		10.1		mg/Kg			05/20/25 17:33	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 168

Date Collected: 05/14/25 13:31
Date Received: 05/16/25 15:57
Sample Depth: 1

Lab Sample ID: 890-8178-11

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 23:59	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 09:03	05/20/25 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:59*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/20/25 09:03*	*05/20/25 23:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 23:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 08:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 08:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 08:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:59	05/22/25 08:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*05/20/25 07:59*	*05/22/25 08:01*	*1*
o-Terphenyl	*93*		*70 - 130*	*05/20/25 07:59*	*05/22/25 08:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**740**		9.96		mg/Kg			05/20/25 17:40	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-8178-1	CS 151	91	75										
890-8178-1 MS	CS 151	98	107										
890-8178-1 MSD	CS 151	102	99										
890-8178-2	CS 152	93	98										
890-8178-3	CS 153	94	101										
890-8178-4	CS 177	91	100										
890-8178-5	CS 158	96	101										
890-8178-6	CS 61	89	95										
890-8178-7	CS 42	88	97										
890-8178-8	CS 41	84	95										
890-8178-9	CS 37	89	76										
890-8178-10	CS 38	88	99										
890-8178-11	CS 168	88	96										
LCS 880-110499/1-A	Lab Control Sample	103	110										
LCSD 880-110499/2-A	Lab Control Sample Dup	110	101										
MB 880-110499/5-A	Method Blank	86	95										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-8177-A-2-C MS	Matrix Spike	96	95										
890-8177-A-2-D MSD	Matrix Spike Duplicate	96	94										
890-8178-1	CS 151	101	92										
890-8178-2	CS 152	105	94										
890-8178-3	CS 153	108	96										
890-8178-4	CS 177	108	99										
890-8178-5	CS 158	107	94										
890-8178-6	CS 61	109	99										
890-8178-7	CS 42	105	95										
890-8178-8	CS 41	106	96										
890-8178-9	CS 37	105	96										
890-8178-10	CS 38	103	95										
890-8178-11	CS 168	103	93										
LCS 880-110483/2-A	Lab Control Sample	108	107										
LCSD 880-110483/3-A	Lab Control Sample Dup	106	105										
MB 880-110483/1-A	Method Blank	98	90										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110499/5-A
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110499

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 09:03	05/20/25 17:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 09:03	05/20/25 17:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*05/20/25 09:03*	*05/20/25 17:26*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*05/20/25 09:03*	*05/20/25 17:26*	*1*

Lab Sample ID: LCS 880-110499/1-A
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110499

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1095		mg/Kg		109	70 - 130		
Toluene			0.100	0.09614		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.1226		mg/Kg		123	70 - 130		
m-Xylene & p-Xylene			0.200	0.2287		mg/Kg		114	70 - 130		
o-Xylene			0.100	0.1147		mg/Kg		115	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: LCSD 880-110499/2-A
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110499

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1089		mg/Kg		109	70 - 130	1	35
Toluene			0.100	0.1072		mg/Kg		107	70 - 130	11	35
Ethylbenzene			0.100	0.1245		mg/Kg		125	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2317		mg/Kg		116	70 - 130	1	35
o-Xylene			0.100	0.1160		mg/Kg		116	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-8178-1 MS
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: CS 151
Prep Type: Total/NA
Prep Batch: 110499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U F1 F2	0.100	0.05475	F1	mg/Kg		55	70 - 130		
Toluene	<0.00200	U F1 F2	0.100	0.04949	F1	mg/Kg		49	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8178-1 MS
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: CS 151
Prep Type: Total/NA
Prep Batch: 110499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1 F2	0.100	0.05134	F1	mg/Kg		51	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.09951	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00200	U F1 F2	0.100	0.05097	F1	mg/Kg		51	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-8178-1 MSD
Matrix: Solid
Analysis Batch: 110543

Client Sample ID: CS 151
Prep Type: Total/NA
Prep Batch: 110499

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.07968	F2	mg/Kg		80	70 - 130	37	35
Toluene	<0.00200	U F1 F2	0.100	0.07790	F2	mg/Kg		78	70 - 130	45	35
Ethylbenzene	<0.00200	U F1 F2	0.100	0.08442	F2	mg/Kg		84	70 - 130	49	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.1573	F2	mg/Kg		79	70 - 130	45	35
o-Xylene	<0.00200	U F1 F2	0.100	0.07796	F2	mg/Kg		78	70 - 130	42	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110483/1-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110483

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*
o-Terphenyl	*90*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*

Lab Sample ID: LCS 880-110483/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110483

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1103		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1045		mg/Kg		104	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110483/2-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110483

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: LCSD 880-110483/3-A
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1077		mg/Kg		108	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1017		mg/Kg		102	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-8177-A-2-C MS
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	861.0		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	999	887.1		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 890-8177-A-2-D MSD
Matrix: Solid
Analysis Batch: 110687

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	999	851.4		mg/Kg		85	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	899.3		mg/Kg		90	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	94		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110436/1-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 14:08	1

Lab Sample ID: LCS 880-110436/2-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.3		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110436/3-A
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.1		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8178-2 MS
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: CS 152
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	233		250	486.9		mg/Kg		101	90 - 110		

Lab Sample ID: 890-8178-2 MSD
Matrix: Solid
Analysis Batch: 110526

Client Sample ID: CS 152
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	233		250	488.6		mg/Kg		102	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

GC VOA

Prep Batch: 110499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	5035	
890-8178-2	CS 152	Total/NA	Solid	5035	
890-8178-3	CS 153	Total/NA	Solid	5035	
890-8178-4	CS 177	Total/NA	Solid	5035	
890-8178-5	CS 158	Total/NA	Solid	5035	
890-8178-6	CS 61	Total/NA	Solid	5035	
890-8178-7	CS 42	Total/NA	Solid	5035	
890-8178-8	CS 41	Total/NA	Solid	5035	
890-8178-9	CS 37	Total/NA	Solid	5035	
890-8178-10	CS 38	Total/NA	Solid	5035	
890-8178-11	CS 168	Total/NA	Solid	5035	
MB 880-110499/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110499/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110499/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8178-1 MS	CS 151	Total/NA	Solid	5035	
890-8178-1 MSD	CS 151	Total/NA	Solid	5035	

Analysis Batch: 110543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	8021B	110499
890-8178-2	CS 152	Total/NA	Solid	8021B	110499
890-8178-3	CS 153	Total/NA	Solid	8021B	110499
890-8178-4	CS 177	Total/NA	Solid	8021B	110499
890-8178-5	CS 158	Total/NA	Solid	8021B	110499
890-8178-6	CS 61	Total/NA	Solid	8021B	110499
890-8178-7	CS 42	Total/NA	Solid	8021B	110499
890-8178-8	CS 41	Total/NA	Solid	8021B	110499
890-8178-9	CS 37	Total/NA	Solid	8021B	110499
890-8178-10	CS 38	Total/NA	Solid	8021B	110499
890-8178-11	CS 168	Total/NA	Solid	8021B	110499
MB 880-110499/5-A	Method Blank	Total/NA	Solid	8021B	110499
LCS 880-110499/1-A	Lab Control Sample	Total/NA	Solid	8021B	110499
LCSD 880-110499/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110499
890-8178-1 MS	CS 151	Total/NA	Solid	8021B	110499
890-8178-1 MSD	CS 151	Total/NA	Solid	8021B	110499

Analysis Batch: 110622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	Total BTEX	
890-8178-2	CS 152	Total/NA	Solid	Total BTEX	
890-8178-3	CS 153	Total/NA	Solid	Total BTEX	
890-8178-4	CS 177	Total/NA	Solid	Total BTEX	
890-8178-5	CS 158	Total/NA	Solid	Total BTEX	
890-8178-6	CS 61	Total/NA	Solid	Total BTEX	
890-8178-7	CS 42	Total/NA	Solid	Total BTEX	
890-8178-8	CS 41	Total/NA	Solid	Total BTEX	
890-8178-9	CS 37	Total/NA	Solid	Total BTEX	
890-8178-10	CS 38	Total/NA	Solid	Total BTEX	
890-8178-11	CS 168	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

GC Semi VOA

Prep Batch: 110483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	8015NM Prep	
890-8178-2	CS 152	Total/NA	Solid	8015NM Prep	
890-8178-3	CS 153	Total/NA	Solid	8015NM Prep	
890-8178-4	CS 177	Total/NA	Solid	8015NM Prep	
890-8178-5	CS 158	Total/NA	Solid	8015NM Prep	
890-8178-6	CS 61	Total/NA	Solid	8015NM Prep	
890-8178-7	CS 42	Total/NA	Solid	8015NM Prep	
890-8178-8	CS 41	Total/NA	Solid	8015NM Prep	
890-8178-9	CS 37	Total/NA	Solid	8015NM Prep	
890-8178-10	CS 38	Total/NA	Solid	8015NM Prep	
890-8178-11	CS 168	Total/NA	Solid	8015NM Prep	
MB 880-110483/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110483/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8177-A-2-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-8177-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	8015B NM	110483
890-8178-2	CS 152	Total/NA	Solid	8015B NM	110483
890-8178-3	CS 153	Total/NA	Solid	8015B NM	110483
890-8178-4	CS 177	Total/NA	Solid	8015B NM	110483
890-8178-5	CS 158	Total/NA	Solid	8015B NM	110483
890-8178-6	CS 61	Total/NA	Solid	8015B NM	110483
890-8178-7	CS 42	Total/NA	Solid	8015B NM	110483
890-8178-8	CS 41	Total/NA	Solid	8015B NM	110483
890-8178-9	CS 37	Total/NA	Solid	8015B NM	110483
890-8178-10	CS 38	Total/NA	Solid	8015B NM	110483
890-8178-11	CS 168	Total/NA	Solid	8015B NM	110483
MB 880-110483/1-A	Method Blank	Total/NA	Solid	8015B NM	110483
LCS 880-110483/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110483
LCSD 880-110483/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110483
890-8177-A-2-C MS	Matrix Spike	Total/NA	Solid	8015B NM	110483
890-8177-A-2-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110483

Analysis Batch: 110727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Total/NA	Solid	8015 NM	
890-8178-2	CS 152	Total/NA	Solid	8015 NM	
890-8178-3	CS 153	Total/NA	Solid	8015 NM	
890-8178-4	CS 177	Total/NA	Solid	8015 NM	
890-8178-5	CS 158	Total/NA	Solid	8015 NM	
890-8178-6	CS 61	Total/NA	Solid	8015 NM	
890-8178-7	CS 42	Total/NA	Solid	8015 NM	
890-8178-8	CS 41	Total/NA	Solid	8015 NM	
890-8178-9	CS 37	Total/NA	Solid	8015 NM	
890-8178-10	CS 38	Total/NA	Solid	8015 NM	
890-8178-11	CS 168	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

HPLC/IC

Leach Batch: 110436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Soluble	Solid	DI Leach	
890-8178-2	CS 152	Soluble	Solid	DI Leach	
890-8178-3	CS 153	Soluble	Solid	DI Leach	
890-8178-4	CS 177	Soluble	Solid	DI Leach	
890-8178-5	CS 158	Soluble	Solid	DI Leach	
890-8178-6	CS 61	Soluble	Solid	DI Leach	
890-8178-7	CS 42	Soluble	Solid	DI Leach	
890-8178-8	CS 41	Soluble	Solid	DI Leach	
890-8178-9	CS 37	Soluble	Solid	DI Leach	
890-8178-10	CS 38	Soluble	Solid	DI Leach	
890-8178-11	CS 168	Soluble	Solid	DI Leach	
MB 880-110436/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110436/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110436/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8178-2 MS	CS 152	Soluble	Solid	DI Leach	
890-8178-2 MSD	CS 152	Soluble	Solid	DI Leach	

Analysis Batch: 110526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8178-1	CS 151	Soluble	Solid	300.0	110436
890-8178-2	CS 152	Soluble	Solid	300.0	110436
890-8178-3	CS 153	Soluble	Solid	300.0	110436
890-8178-4	CS 177	Soluble	Solid	300.0	110436
890-8178-5	CS 158	Soluble	Solid	300.0	110436
890-8178-6	CS 61	Soluble	Solid	300.0	110436
890-8178-7	CS 42	Soluble	Solid	300.0	110436
890-8178-8	CS 41	Soluble	Solid	300.0	110436
890-8178-9	CS 37	Soluble	Solid	300.0	110436
890-8178-10	CS 38	Soluble	Solid	300.0	110436
890-8178-11	CS 168	Soluble	Solid	300.0	110436
MB 880-110436/1-A	Method Blank	Soluble	Solid	300.0	110436
LCS 880-110436/2-A	Lab Control Sample	Soluble	Solid	300.0	110436
LCSD 880-110436/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110436
890-8178-2 MS	CS 152	Soluble	Solid	300.0	110436
890-8178-2 MSD	CS 152	Soluble	Solid	300.0	110436

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 151

Date Collected: 05/14/25 09:28
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 17:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 17:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 05:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 05:05	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:01	SMC	EET MID

Client Sample ID: CS 152

Date Collected: 05/14/25 09:30
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 18:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 18:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 05:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 05:36	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:08	SMC	EET MID

Client Sample ID: CS 153

Date Collected: 05/14/25 09:32
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 18:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 18:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 05:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 05:52	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:29	SMC	EET MID

Client Sample ID: CS 177

Date Collected: 05/14/25 09:01
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 18:49	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 177

Date Collected: 05/14/25 09:01
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110727	05/22/25 06:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 06:08	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:36	SMC	EET MID

Client Sample ID: CS 158

Date Collected: 05/14/25 10:35
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 19:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 19:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 06:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 06:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 16:58	SMC	EET MID

Client Sample ID: CS 61

Date Collected: 05/14/25 11:13
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 22:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 22:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 06:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 06:40	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:05	SMC	EET MID

Client Sample ID: CS 42

Date Collected: 05/14/25 11:35
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 22:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 22:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 06:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 06:57	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 42

Date Collected: 05/14/25 11:35
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:12	SMC	EET MID

Client Sample ID: CS 41

Date Collected: 05/14/25 12:51
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 22:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 22:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 07:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 07:13	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:19	SMC	EET MID

Client Sample ID: CS 37

Date Collected: 05/14/25 13:45
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 23:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 23:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 07:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 07:30	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:26	SMC	EET MID

Client Sample ID: CS 38

Date Collected: 05/14/25 13:43
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 23:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 23:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 07:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 07:45	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:33	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Client Sample ID: CS 168

Date Collected: 05/14/25 13:31
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8178-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110499	05/20/25 09:03	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110543	05/20/25 23:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110622	05/20/25 23:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			110727	05/22/25 08:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110483	05/20/25 07:59	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110687	05/22/25 08:01	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110436	05/19/25 11:16	SA	EET MID
Soluble	Analysis	300.0		1			110526	05/20/25 17:40	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8178-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8178-1	CS 151	Solid	05/14/25 09:28	05/16/25 15:57	2
890-8178-2	CS 152	Solid	05/14/25 09:30	05/16/25 15:57	2
890-8178-3	CS 153	Solid	05/14/25 09:32	05/16/25 15:57	2
890-8178-4	CS 177	Solid	05/14/25 09:01	05/16/25 15:57	2
890-8178-5	CS 158	Solid	05/14/25 10:35	05/16/25 15:57	2
890-8178-6	CS 61	Solid	05/14/25 11:13	05/16/25 15:57	1
890-8178-7	CS 42	Solid	05/14/25 11:35	05/16/25 15:57	1
890-8178-8	CS 41	Solid	05/14/25 12:51	05/16/25 15:57	1
890-8178-9	CS 37	Solid	05/14/25 13:45	05/16/25 15:57	1
890-8178-10	CS 38	Solid	05/14/25 13:43	05/16/25 15:57	2
890-8178-11	CS 168	Solid	05/14/25 13:31	05/16/25 15:57	1

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5/22/2025

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☑ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Kaoru Shimada	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	Thermco
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

890-8178 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (300)	TPH (8015M)	BTEX (8021)	RCI	Paint Filter Test	TCLP	VOC	SVOC	Sample Comments
CS151	Soil	5-14-25	928	2	C	1		X	X	X						Incident ID:
CS152			930	2				X	X	X						
CS153			932	2				X	X	X						
CS177			901	2				X	X	X						Cost Center:
CS158			1035	+2				X	X	X						
~~CS166~~			~~935~~	2				X	X	X	X					AFE:
CS 61			1113	1				X	X	X						
CS 42			1135	1				X	X	X						
CS 41			1251	1				X	X	X						
CS 37			1345	1	C	1		X	X	X						

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Dana Wagner	Brian Bell	5/16 15:57	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Chain of Custody

eurofins | Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

5/22/2025

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	32.30486, -103.89709	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Kaoru Shimada		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TNMCC	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

Preservative Codes

None: NO — DI Water: H_2O
~~Cool: Cool~~ — ~~MeOH: Me~~
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (300)	TPH (8015M)	BTEX (8021)	RCI	Paint Filter Test	TCLP	VOC	SVOC	Sample Comments
CS38	soil	1	1343	1	C	1	Cool	X	X	X						Incident ID:
CS168	soil	2	1331	2	C	1	Cool	X	X	X						
																Cost Center:
																AFE:

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed — TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U — Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Deven Green		5/16 1535	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5154.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8178-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 151 (890-8178-1)	5/14/25	09:28 Mountain	G	Solid			X	X	X	X	X	1	
CS 152 (890-8178-2)	5/14/25	09:30 Mountain	G	Solid			X	X	X	X	X	1	
CS 153 (890-8178-3)	5/14/25	09:32 Mountain	G	Solid			X	X	X	X	X	1	
CS 177 (890-8178-4)	5/14/25	09:01 Mountain	G	Solid			X	X	X	X	X	1	
CS 158 (890-8178-5)	5/14/25	10:35 Mountain	G	Solid			X	X	X	X	X	1	
CS 61 (890-8178-6)	5/14/25	11:13 Mountain	G	Solid			X	X	X	X	X	1	
CS 42 (890-8178-7)	5/14/25	11:35 Mountain	G	Solid			X	X	X	X	X	1	
CS 41 (890-8178-8)	5/14/25	12:51 Mountain	G	Solid			X	X	X	X	X	1	
CS 37 (890-8178-9)	5/14/25	13:45 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time: 5/19 1630	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by: Teddy Randall Lee	Date/Time: 5/20/25 0800	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5154.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8178-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 38 (890-8178-10)	5/14/25	13:43 Mountain	G	Solid			X	X	X	X	X	1	
CS 168 (890-8178-11)	5/14/25	13:31 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	5/19 1630				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 5/20/25 0800	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM
Released to Imaging: 8/4/2025 3:28:31 PM
5/22/2025
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8178-1
SDG Number: 03D3836001

Login Number: 8178
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8178-1
SDG Number: 03D3836001

Login Number: 8178
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 5/22/2025 11:43:09 AM

JOB DESCRIPTION

FLATLAND FNR FRAC LINE
03D3836001

JOB NUMBER

890-8179-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

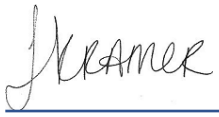
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
5/22/2025 11:43:09 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8179-1
SDG: 03D3836001

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Definitions/Glossary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8179-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1 Eurofins Carlsbad

Job Narrative
890-8179-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/16/2025 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS 165 (890-8179-1), CS 164 (890-8179-2), CS 18 (890-8179-3), CS 166 (890-8179-4), CS 17 (890-8179-5), CS 176 (890-8179-6), CS 169 (890-8179-7), CS 159 (890-8179-8), CS 172 (890-8179-9) and CS 177 (890-8179-10).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
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: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 165

Date Collected: 05/15/25 10:52
Date Received: 05/16/25 15:57
Sample Depth: 3

Lab Sample ID: 890-8179-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:49	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/20/25 08:38	05/20/25 11:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:38*	*05/20/25 11:49*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/20/25 08:38*	*05/20/25 11:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/20/25 11:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 02:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 02:10	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 02:10	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 02:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/20/25 08:01*	*05/22/25 02:10*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/20/25 08:01*	*05/22/25 02:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**237**		9.96		mg/Kg			05/20/25 20:44	1

Client Sample ID: CS 164

Date Collected: 05/15/25 10:56
Date Received: 05/16/25 15:57
Sample Depth: 3

Lab Sample ID: 890-8179-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 12:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 08:38	05/20/25 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:10*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 164

Lab Sample ID: 890-8179-2
Matrix: Solid
Date Collected: 05/15/25 10:56
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			05/20/25 12:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/22/25 02:56	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/20/25 08:01	05/22/25 02:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/20/25 08:01	05/22/25 02:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/20/25 08:01	05/22/25 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*93*		*70 - 130*	*05/20/25 08:01*	*05/22/25 02:56*	*1*
o-Terphenyl	*91*		*70 - 130*	*05/20/25 08:01*	*05/22/25 02:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**364**		9.96	mg/Kg			05/20/25 21:05	1

Client Sample ID: CS 18

Lab Sample ID: 890-8179-3
Matrix: Solid
Date Collected: 05/15/25 09:30
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/20/25 08:38	05/20/25 12:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/20/25 08:38	05/20/25 12:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:30*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:30*	*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			05/20/25 12:30	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/22/25 03:12	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 18

Lab Sample ID: 890-8179-3
Matrix: Solid
Date Collected: 05/15/25 09:30
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 03:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 03:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:12*	*1*
o-Terphenyl	*92*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**141**		10.0		mg/Kg			05/20/25 21:12	1

Client Sample ID: CS 166

Lab Sample ID: 890-8179-4
Matrix: Solid
Date Collected: 05/15/25 10:48
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 12:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 08:38	05/20/25 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:51*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*05/20/25 08:38*	*05/20/25 12:51*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 12:51	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 03:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 03:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 03:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:28*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:28*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 166

Lab Sample ID: 890-8179-4
Matrix: Solid
Date Collected: 05/15/25 10:48
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	247		10.0		mg/Kg			05/20/25 21:19	1

Client Sample ID: CS 17

Lab Sample ID: 890-8179-5
Matrix: Solid
Date Collected: 05/15/25 09:22
Date Received: 05/16/25 15:57
Sample Depth: 2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/20/25 08:38	05/20/25 13:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/20/25 08:38	05/20/25 13:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:11*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/20/25 13:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/22/25 03:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/20/25 08:01	05/22/25 03:44	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/20/25 08:01	05/22/25 03:44	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/20/25 08:01	05/22/25 03:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:44*	*1*
o-Terphenyl	*97*		*70 - 130*	*05/20/25 08:01*	*05/22/25 03:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	317		10.1		mg/Kg			05/20/25 21:26	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 176

Lab Sample ID: 890-8179-6
Matrix: Solid
Date Collected: 05/15/25 09:53
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/20/25 08:38	05/20/25 13:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/20/25 08:38	05/20/25 13:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:32*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:32*	*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			05/20/25 13:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 04:01	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:01	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:01	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:01*	*1*
o-Terphenyl	*89*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**295**		10.1		mg/Kg			05/20/25 21:33	1

Client Sample ID: CS 169

Lab Sample ID: 890-8179-7
Matrix: Solid
Date Collected: 05/15/25 10:33
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/20/25 08:38	05/20/25 13:52	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/20/25 08:38	05/20/25 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:52*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 169

Lab Sample ID: 890-8179-7
Matrix: Solid
Date Collected: 05/15/25 10:33
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*05/20/25 08:38*	*05/20/25 13:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			05/20/25 13:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			05/22/25 04:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		05/20/25 08:01	05/22/25 04:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		05/20/25 08:01	05/22/25 04:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		05/20/25 08:01	05/22/25 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:16*	*1*
o-Terphenyl	*88*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**279**		10.1	mg/Kg			05/20/25 21:41	1

Client Sample ID: CS 159

Lab Sample ID: 890-8179-8
Matrix: Solid
Date Collected: 05/15/25 11:19
Date Received: 05/16/25 15:57
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		05/20/25 08:38	05/20/25 14:13	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/20/25 08:38	05/20/25 14:13	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/20/25 08:38	05/20/25 14:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/20/25 08:38	05/20/25 14:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/20/25 08:38	05/20/25 14:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/20/25 08:38	05/20/25 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:13*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			05/20/25 14:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			05/22/25 04:33	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 159

Date Collected: 05/15/25 11:19
Date Received: 05/16/25 15:57
Sample Depth: 3

Lab Sample ID: 890-8179-8
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:33*	*1*
o-Terphenyl	*87*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**298**		9.94		mg/Kg			05/20/25 21:48	1

Client Sample ID: CS 172

Date Collected: 05/15/25 10:44
Date Received: 05/16/25 15:57
Sample Depth: 3

Lab Sample ID: 890-8179-9
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:33	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/20/25 08:38	05/20/25 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:33*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/20/25 14:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/22/25 04:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 04:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 04:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 08:01	05/22/25 04:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:48*	*1*
o-Terphenyl	*83*		*70 - 130*	*05/20/25 08:01*	*05/22/25 04:48*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 172

Lab Sample ID: 890-8179-9
Matrix: Solid
Date Collected: 05/15/25 10:44
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	571		10.0		mg/Kg			05/20/25 14:59	1

Client Sample ID: CS 177

Lab Sample ID: 890-8179-10
Matrix: Solid
Date Collected: 05/15/25 09:49
Date Received: 05/16/25 15:57
Sample Depth: 3

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/20/25 08:38	05/20/25 14:54	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/20/25 08:38	05/20/25 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:54*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/20/25 08:38*	*05/20/25 14:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			05/20/25 14:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/22/25 05:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 05:05	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 05:05	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/20/25 08:01	05/22/25 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*05/20/25 08:01*	*05/22/25 05:05*	*1*
o-Terphenyl	*87*		*70 - 130*	*05/20/25 08:01*	*05/22/25 05:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	105		9.94		mg/Kg			05/20/25 15:05	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-8179-1	CS 165	104	83										
890-8179-1 MS	CS 165	106	100										
890-8179-1 MSD	CS 165	99	96										
890-8179-2	CS 164	115	81										
890-8179-3	CS 18	115	85										
890-8179-4	CS 166	113	88										
890-8179-5	CS 17	107	85										
890-8179-6	CS 176	104	85										
890-8179-7	CS 169	104	82										
890-8179-8	CS 159	116	83										
890-8179-9	CS 172	112	81										
890-8179-10	CS 177	112	81										
LCS 880-110494/1-A	Lab Control Sample	102	100										
LCSD 880-110494/2-A	Lab Control Sample Dup	108	102										
MB 880-110494/5-A	Method Blank	103	78										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-8179-1	CS 165	93	91										
890-8179-1 MS	CS 165	80	85										
890-8179-1 MSD	CS 165	95	86										
890-8179-2	CS 164	93	91										
890-8179-3	CS 18	92	92										
890-8179-4	CS 166	89	88										
890-8179-5	CS 17	99	97										
890-8179-6	CS 176	90	89										
890-8179-7	CS 169	91	88										
890-8179-8	CS 159	88	87										
890-8179-9	CS 172	85	83										
890-8179-10	CS 177	89	87										
LCS 880-110484/2-A	Lab Control Sample	85	92										
LCSD 880-110484/3-A	Lab Control Sample Dup	83	90										
MB 880-110484/1-A	Method Blank	75	75										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110494/5-A
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110494

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/20/25 08:38	05/20/25 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/20/25 08:38	05/20/25 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/20/25 08:38*	*05/20/25 11:27*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*05/20/25 08:38*	*05/20/25 11:27*	*1*

Lab Sample ID: LCS 880-110494/1-A
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110494

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09064		mg/Kg		91	70 - 130		
Toluene			0.100	0.09176		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09319		mg/Kg		93	70 - 130		
m-Xylene & p-Xylene			0.200	0.1908		mg/Kg		95	70 - 130		
o-Xylene			0.100	0.09530		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-110494/2-A
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110494

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09790		mg/Kg		98	70 - 130	8	35
Toluene			0.100	0.1018		mg/Kg		102	70 - 130	10	35
Ethylbenzene			0.100	0.1023		mg/Kg		102	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.2124		mg/Kg		106	70 - 130	11	35
o-Xylene			0.100	0.1057		mg/Kg		106	70 - 130	10	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-8179-1 MS
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: CS 165
Prep Type: Total/NA
Prep Batch: 110494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08487		mg/Kg		85	70 - 130		
Toluene	<0.00200	U	0.100	0.08247		mg/Kg		82	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8179-1 MS
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: CS 165
Prep Type: Total/NA
Prep Batch: 110494

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07899		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1603		mg/Kg		80	70 - 130
o-Xylene	<0.00200	U	0.100	0.08049		mg/Kg		80	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-8179-1 MSD
Matrix: Solid
Analysis Batch: 110489

Client Sample ID: CS 165
Prep Type: Total/NA
Prep Batch: 110494

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08104		mg/Kg		81	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.07744		mg/Kg		77	70 - 130	6	35
Ethylbenzene	<0.00200	U	0.100	0.07325		mg/Kg		73	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1495		mg/Kg		75	70 - 130	7	35
o-Xylene	<0.00200	U	0.100	0.07608		mg/Kg		76	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-110484/1-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110484

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/20/25 07:54	05/22/25 01:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*
o-Terphenyl	*75*		*70 - 130*	*05/20/25 07:54*	*05/22/25 01:22*	*1*

Lab Sample ID: LCS 880-110484/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110484

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	867.2		mg/Kg		87	70 - 130
Diesel Range Organics (Over C10-C28)			1000	871.2		mg/Kg		87	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-110484/2-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110484

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-110484/3-A
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110484

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	829.2		mg/Kg		83	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	841.9		mg/Kg		84	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 890-8179-1 MS
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: CS 165
Prep Type: Total/NA
Prep Batch: 110484

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	719.2		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	791.0		mg/Kg		79	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-8179-1 MSD
Matrix: Solid
Analysis Batch: 110685

Client Sample ID: CS 165
Prep Type: Total/NA
Prep Batch: 110484

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	731.9		mg/Kg		73	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	748.0		mg/Kg		75	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	86		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110448/1-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 11:21	1

Lab Sample ID: LCS 880-110448/2-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.7		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110448/3-A
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	260.6		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-8174-A-10-B MS
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	475		253	738.0		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8174-A-10-C MSD
Matrix: Solid
Analysis Batch: 110516

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	475		253	732.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: MB 880-110438/1-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/20/25 18:15	1

Lab Sample ID: LCS 880-110438/2-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	259.5		mg/Kg		104	90 - 110		

Lab Sample ID: LCSD 880-110438/3-A
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	259.6		mg/Kg		104	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-8176-A-9-B MS
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	301		249	571.8		mg/Kg		109	90 - 110		

Lab Sample ID: 890-8176-A-9-C MSD
Matrix: Solid
Analysis Batch: 110534

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	301		249	571.6		mg/Kg		109	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

GC VOA

Analysis Batch: 110489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	8021B	110494
890-8179-2	CS 164	Total/NA	Solid	8021B	110494
890-8179-3	CS 18	Total/NA	Solid	8021B	110494
890-8179-4	CS 166	Total/NA	Solid	8021B	110494
890-8179-5	CS 17	Total/NA	Solid	8021B	110494
890-8179-6	CS 176	Total/NA	Solid	8021B	110494
890-8179-7	CS 169	Total/NA	Solid	8021B	110494
890-8179-8	CS 159	Total/NA	Solid	8021B	110494
890-8179-9	CS 172	Total/NA	Solid	8021B	110494
890-8179-10	CS 177	Total/NA	Solid	8021B	110494
MB 880-110494/5-A	Method Blank	Total/NA	Solid	8021B	110494
LCS 880-110494/1-A	Lab Control Sample	Total/NA	Solid	8021B	110494
LCSD 880-110494/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110494
890-8179-1 MS	CS 165	Total/NA	Solid	8021B	110494
890-8179-1 MSD	CS 165	Total/NA	Solid	8021B	110494

Prep Batch: 110494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	5035	
890-8179-2	CS 164	Total/NA	Solid	5035	
890-8179-3	CS 18	Total/NA	Solid	5035	
890-8179-4	CS 166	Total/NA	Solid	5035	
890-8179-5	CS 17	Total/NA	Solid	5035	
890-8179-6	CS 176	Total/NA	Solid	5035	
890-8179-7	CS 169	Total/NA	Solid	5035	
890-8179-8	CS 159	Total/NA	Solid	5035	
890-8179-9	CS 172	Total/NA	Solid	5035	
890-8179-10	CS 177	Total/NA	Solid	5035	
MB 880-110494/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110494/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110494/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8179-1 MS	CS 165	Total/NA	Solid	5035	
890-8179-1 MSD	CS 165	Total/NA	Solid	5035	

Analysis Batch: 110627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	Total BTEX	
890-8179-2	CS 164	Total/NA	Solid	Total BTEX	
890-8179-3	CS 18	Total/NA	Solid	Total BTEX	
890-8179-4	CS 166	Total/NA	Solid	Total BTEX	
890-8179-5	CS 17	Total/NA	Solid	Total BTEX	
890-8179-6	CS 176	Total/NA	Solid	Total BTEX	
890-8179-7	CS 169	Total/NA	Solid	Total BTEX	
890-8179-8	CS 159	Total/NA	Solid	Total BTEX	
890-8179-9	CS 172	Total/NA	Solid	Total BTEX	
890-8179-10	CS 177	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

GC Semi VOA

Prep Batch: 110484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	8015NM Prep	
890-8179-2	CS 164	Total/NA	Solid	8015NM Prep	
890-8179-3	CS 18	Total/NA	Solid	8015NM Prep	
890-8179-4	CS 166	Total/NA	Solid	8015NM Prep	
890-8179-5	CS 17	Total/NA	Solid	8015NM Prep	
890-8179-6	CS 176	Total/NA	Solid	8015NM Prep	
890-8179-7	CS 169	Total/NA	Solid	8015NM Prep	
890-8179-8	CS 159	Total/NA	Solid	8015NM Prep	
890-8179-9	CS 172	Total/NA	Solid	8015NM Prep	
890-8179-10	CS 177	Total/NA	Solid	8015NM Prep	
MB 880-110484/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110484/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110484/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8179-1 MS	CS 165	Total/NA	Solid	8015NM Prep	
890-8179-1 MSD	CS 165	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	8015B NM	110484
890-8179-2	CS 164	Total/NA	Solid	8015B NM	110484
890-8179-3	CS 18	Total/NA	Solid	8015B NM	110484
890-8179-4	CS 166	Total/NA	Solid	8015B NM	110484
890-8179-5	CS 17	Total/NA	Solid	8015B NM	110484
890-8179-6	CS 176	Total/NA	Solid	8015B NM	110484
890-8179-7	CS 169	Total/NA	Solid	8015B NM	110484
890-8179-8	CS 159	Total/NA	Solid	8015B NM	110484
890-8179-9	CS 172	Total/NA	Solid	8015B NM	110484
890-8179-10	CS 177	Total/NA	Solid	8015B NM	110484
MB 880-110484/1-A	Method Blank	Total/NA	Solid	8015B NM	110484
LCS 880-110484/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110484
LCSD 880-110484/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110484
890-8179-1 MS	CS 165	Total/NA	Solid	8015B NM	110484
890-8179-1 MSD	CS 165	Total/NA	Solid	8015B NM	110484

Analysis Batch: 110731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Total/NA	Solid	8015 NM	
890-8179-2	CS 164	Total/NA	Solid	8015 NM	
890-8179-3	CS 18	Total/NA	Solid	8015 NM	
890-8179-4	CS 166	Total/NA	Solid	8015 NM	
890-8179-5	CS 17	Total/NA	Solid	8015 NM	
890-8179-6	CS 176	Total/NA	Solid	8015 NM	
890-8179-7	CS 169	Total/NA	Solid	8015 NM	
890-8179-8	CS 159	Total/NA	Solid	8015 NM	
890-8179-9	CS 172	Total/NA	Solid	8015 NM	
890-8179-10	CS 177	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

HPLC/IC

Leach Batch: 110438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Soluble	Solid	DI Leach	
890-8179-2	CS 164	Soluble	Solid	DI Leach	
890-8179-3	CS 18	Soluble	Solid	DI Leach	
890-8179-4	CS 166	Soluble	Solid	DI Leach	
890-8179-5	CS 17	Soluble	Solid	DI Leach	
890-8179-6	CS 176	Soluble	Solid	DI Leach	
890-8179-7	CS 169	Soluble	Solid	DI Leach	
890-8179-8	CS 159	Soluble	Solid	DI Leach	
MB 880-110438/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110438/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110438/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8176-A-9-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8176-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 110448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-9	CS 172	Soluble	Solid	DI Leach	
890-8179-10	CS 177	Soluble	Solid	DI Leach	
MB 880-110448/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8174-A-10-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-8174-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 110516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-9	CS 172	Soluble	Solid	300.0	110448
890-8179-10	CS 177	Soluble	Solid	300.0	110448
MB 880-110448/1-A	Method Blank	Soluble	Solid	300.0	110448
LCS 880-110448/2-A	Lab Control Sample	Soluble	Solid	300.0	110448
LCSD 880-110448/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110448
890-8174-A-10-B MS	Matrix Spike	Soluble	Solid	300.0	110448
890-8174-A-10-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110448

Analysis Batch: 110534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8179-1	CS 165	Soluble	Solid	300.0	110438
890-8179-2	CS 164	Soluble	Solid	300.0	110438
890-8179-3	CS 18	Soluble	Solid	300.0	110438
890-8179-4	CS 166	Soluble	Solid	300.0	110438
890-8179-5	CS 17	Soluble	Solid	300.0	110438
890-8179-6	CS 176	Soluble	Solid	300.0	110438
890-8179-7	CS 169	Soluble	Solid	300.0	110438
890-8179-8	CS 159	Soluble	Solid	300.0	110438
MB 880-110438/1-A	Method Blank	Soluble	Solid	300.0	110438
LCS 880-110438/2-A	Lab Control Sample	Soluble	Solid	300.0	110438
LCSD 880-110438/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110438
890-8176-A-9-B MS	Matrix Spike	Soluble	Solid	300.0	110438
890-8176-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	110438

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 165

Date Collected: 05/15/25 10:52
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 11:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 11:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 02:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 02:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 20:44	SMC	EET MID

Client Sample ID: CS 164

Date Collected: 05/15/25 10:56
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 12:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 12:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 02:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 02:56	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:05	SMC	EET MID

Client Sample ID: CS 18

Date Collected: 05/15/25 09:30
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 12:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 03:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 03:12	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:12	SMC	EET MID

Client Sample ID: CS 166

Date Collected: 05/15/25 10:48
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 12:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 12:51	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 166

Date Collected: 05/15/25 10:48
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110731	05/22/25 03:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 03:28	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:19	SMC	EET MID

Client Sample ID: CS 17

Date Collected: 05/15/25 09:22
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 13:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 13:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 03:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 03:44	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:26	SMC	EET MID

Client Sample ID: CS 176

Date Collected: 05/15/25 09:53
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 13:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 04:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 04:01	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:33	SMC	EET MID

Client Sample ID: CS 169

Date Collected: 05/15/25 10:33
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 13:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 13:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 04:16	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 04:16	TKC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Client Sample ID: CS 169

Date Collected: 05/15/25 10:33
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:41	SMC	EET MID

Client Sample ID: CS 159

Date Collected: 05/15/25 11:19
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 14:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 14:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 04:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 04:33	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110438	05/19/25 11:18	SA	EET MID
Soluble	Analysis	300.0		1			110534	05/20/25 21:48	SMC	EET MID

Client Sample ID: CS 172

Date Collected: 05/15/25 10:44
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 14:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 14:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 04:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 04:48	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 14:59	SMC	EET MID

Client Sample ID: CS 177

Date Collected: 05/15/25 09:49
Date Received: 05/16/25 15:57

Lab Sample ID: 890-8179-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	110494	05/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110489	05/20/25 14:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110627	05/20/25 14:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			110731	05/22/25 05:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110484	05/20/25 08:01	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110685	05/22/25 05:05	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110448	05/19/25 13:57	SA	EET MID
Soluble	Analysis	300.0		1			110516	05/20/25 15:05	SMC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8179-1
SDG: 03D3836001

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8179-1	CS 165	Solid	05/15/25 10:52	05/16/25 15:57	3
890-8179-2	CS 164	Solid	05/15/25 10:56	05/16/25 15:57	3
890-8179-3	CS 18	Solid	05/15/25 09:30	05/16/25 15:57	2
890-8179-4	CS 166	Solid	05/15/25 10:48	05/16/25 15:57	3
890-8179-5	CS 17	Solid	05/15/25 09:22	05/16/25 15:57	2
890-8179-6	CS 176	Solid	05/15/25 09:53	05/16/25 15:57	3
890-8179-7	CS 169	Solid	05/15/25 10:33	05/16/25 15:57	3
890-8179-8	CS 159	Solid	05/15/25 11:19	05/16/25 15:57	3
890-8179-9	CS 172	Solid	05/15/25 10:44	05/16/25 15:57	3
890-8179-10	CS 177	Solid	05/15/25 09:49	05/16/25 15:57	3

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5/22/2025

Chain of Custody

eurofins | Environment Testing Xenco

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

890-8179 Chain of Custody

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	(432) 557-8895	Email:	hgreen@ensolum.com

Prog.
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☒ Routine ☐ Rush	
Project Location:	32.30486, -103.89709	Due Date:	
Sampler's Name:	Trevor Wargo	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#22	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

Pres. Code

Parameters: BTEX 8021 sg 5/15/25; TPH 8015; Chloride 300

ANALYSIS REQUEST

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2S0_4: H_2	NaOH: Na
H_3PO_4: HP	
$NaHSO_4$: NABIS	
$Na_2S_2O_3$: $NaSO_3$	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Sample Comments
CS165	Soil	5/15/25	10:52	3'	C	1	
CS164			10:56	3'			
CS18			09:30	2'			
CS166			10:48	3'			
CS17			09:22	2'			
CS176			09:53	3'			
CS169			10:33	3'			
CS159			11:19	3'			
CS172			10:44	3'			
CS177	↓	↓	9:49	3'	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Trevor Wargo		5/16 1552	2		
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5155.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8179-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 165 (890-8179-1)	5/15/25	10:52 Mountain	G	Solid			X	X	X	X	X	1	
CS 164 (890-8179-2)	5/15/25	10:56 Mountain	G	Solid			X	X	X	X	X	1	
CS 18 (890-8179-3)	5/15/25	09:30 Mountain	G	Solid			X	X	X	X	X	1	
CS 166 (890-8179-4)	5/15/25	10:48 Mountain	G	Solid			X	X	X	X	X	1	
CS 17 (890-8179-5)	5/15/25	09:22 Mountain	G	Solid			X	X	X	X	X	1	
CS 176 (890-8179-6)	5/15/25	09:53 Mountain	G	Solid			X	X	X	X	X	1	
CS 169 (890-8179-7)	5/15/25	10:33 Mountain	G	Solid			X	X	X	X	X	1	
CS 159 (890-8179-8)	5/15/25	11:19 Mountain	G	Solid			X	X	X	X	X	1	
CS 172 (890-8179-9)	5/15/25	10:44 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM
Page 31 of 34
5/22/2025
Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5155.2
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8179-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 5/22/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
CS 177 (890-8179-10)	5/15/25	09:49 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:		

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8179-1
SDG Number: 03D3836001

Login Number: 8179
List Number: 1
Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8179-1
SDG Number: 03D3836001

Login Number: 8179
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 05/20/25 07:42 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 6/10/2025 10:07:18 PM Revision 1

JOB DESCRIPTION

Flatland FNR Frac Line
Eddy County

JOB NUMBER

880-58802-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 6/4/2025 3:28:51 PM

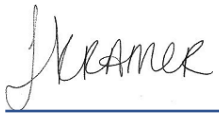
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
6/10/2025 10:07:18 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Laboratory Job ID: 880-58802-1
SDG: Eddy County

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Definitions/Glossary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 880-58802-1
Project: Flatland FNR Frac Line

Job ID: 880-58802-1 Eurofins Midland

Job Narrative
880-58802-1

REVISION

The report being provided is a revision of the original report sent on 6/5/2025. The report (revision 1) is being revised due to Revised report to verify a result per client request..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 5/30/2025 4:06 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 0.5°C.

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-111295 and analytical batch 880-111288 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: CS167 (880-58802-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111296 and analytical batch 880-111341 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-111283 and analytical batch 880-111332 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-8256-A-14-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-111324 and analytical batch 880-111334 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS52 (880-58802-19), (880-58802-A-12-D MS) and (880-58802-A-12-E MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-111283 and analytical batch 880-111332 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS31 (880-58802-44), CS57 (880-58802-54) and (880-58802-A-52-E MSD). Evidence of matrix interferences is not obvious.

Case Narrative

Client: Ensolum Job ID: 880-58802-1
Project: Flatland FNR Frac Line

Job ID: 880-58802-1 (Continued) Eurofins Midland

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: CS77 (880-58802-28). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111501 and analytical batch 880-111564 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.

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111292 and analytical batch 880-111339 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111291 and analytical batch 880-111337 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111290 and analytical batch 880-111336 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111294 and analytical batch 880-111383 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111800 and analytical batch 880-111803 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.

The associated samples are: CS16 (880-58802-4), (880-59078-A-1-A), (880-59078-A-1-B MS) and (880-59078-A-1-C MSD).

Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111711 and analytical batch 880-111721 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.

The associated samples are: CS16 (880-58802-4), (880-59058-A-1-A), (880-59058-A-1-B MS) and (880-59058-A-1-C MSD).

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: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS10

Lab Sample ID: 880-58802-1
Matrix: Solid
Date Collected: 05/30/25 09:00
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 12:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:14*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 12:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 02:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 02:34	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 02:34	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 08:21	06/03/25 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 02:34*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 08:21*	*06/03/25 02:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**343**	**F1**	10.0		mg/Kg			06/02/25 12:18	1

Client Sample ID: CS11

Lab Sample ID: 880-58802-2
Matrix: Solid
Date Collected: 05/30/25 09:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 12:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:56	06/02/25 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:34*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS11

Date Collected: 05/30/25 09:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			06/03/25 03:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	mg/Kg		06/02/25 08:21	06/03/25 03:06	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7	mg/Kg		06/02/25 08:21	06/03/25 03:06	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/02/25 08:21	06/03/25 03:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:06*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**217**		10.0	mg/Kg			06/02/25 12:39	1

Client Sample ID: CS13

Date Collected: 05/30/25 09:04
Date Received: 05/30/25 16:06
Sample Depth: 1.5'

Lab Sample ID: 880-58802-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:56	06/02/25 12:55	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/02/25 09:56	06/02/25 12:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:55*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/02/25 09:56*	*06/02/25 12:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/02/25 12:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 03:21	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS13

Date Collected: 05/30/25 09:04
Date Received: 05/30/25 16:06
Sample Depth: 1.5'

Lab Sample ID: 880-58802-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:21*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**381**		10.1		mg/Kg			06/02/25 12:46	1

Client Sample ID: CS16

Date Collected: 05/30/25 09:06
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 13:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:15*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 13:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 03:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:38	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 08:21	06/03/25 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:38*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS16

Lab Sample ID: 880-58802-4
Matrix: Solid
Date Collected: 05/30/25 09:06
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	509		9.96		mg/Kg			06/09/25 17:44	1

Client Sample ID: CS19

Lab Sample ID: 880-58802-5
Matrix: Solid
Date Collected: 05/30/25 09:08
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:36	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/25 09:56	06/02/25 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:36*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/02/25 13:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 03:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 03:54	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 03:54	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 08:21	06/03/25 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:54*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 03:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		10.0		mg/Kg			06/02/25 13:01	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS21

Lab Sample ID: 880-58802-6
Matrix: Solid
Date Collected: 05/30/25 09:10
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 13:56	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:56	06/02/25 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:56*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*06/02/25 09:56*	*06/02/25 13:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 13:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 04:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 04:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 04:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 08:21	06/03/25 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:10*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**318**		10.0		mg/Kg			06/02/25 13:22	1

Client Sample ID: CS22

Lab Sample ID: 880-58802-7
Matrix: Solid
Date Collected: 05/30/25 09:12
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 14:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:17*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS22

Lab Sample ID: 880-58802-7
Matrix: Solid
Date Collected: 05/30/25 09:12
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 14:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 04:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1	mg/Kg		06/02/25 08:21	06/03/25 04:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1	mg/Kg		06/02/25 08:21	06/03/25 04:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/02/25 08:21	06/03/25 04:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*70*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:26*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**254**		10.0	mg/Kg			06/02/25 13:29	1

Client Sample ID: CS23

Lab Sample ID: 880-58802-8
Matrix: Solid
Date Collected: 05/30/25 09:14
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 14:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 14:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:37*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 14:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/03/25 04:42	1

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Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS23

Lab Sample ID: 880-58802-8
Matrix: Solid
Date Collected: 05/30/25 09:14
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		06/02/25 08:21	06/03/25 04:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		06/02/25 08:21	06/03/25 04:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 08:21	06/03/25 04:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:42*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**103**		9.94		mg/Kg			06/02/25 13:36	1

Client Sample ID: CS24

Lab Sample ID: 880-58802-9
Matrix: Solid
Date Collected: 05/30/25 09:16
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:56	06/02/25 14:58	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:56	06/02/25 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:58*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 14:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 14:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/03/25 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8		mg/Kg		06/02/25 08:21	06/03/25 04:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		06/02/25 08:21	06/03/25 04:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 08:21	06/03/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:59*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 08:21*	*06/03/25 04:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS24

Lab Sample ID: 880-58802-9
Matrix: Solid
Date Collected: 05/30/25 09:16
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	152		9.98		mg/Kg			06/02/25 13:43	1

Client Sample ID: CS25

Lab Sample ID: 880-58802-10
Matrix: Solid
Date Collected: 05/30/25 09:18
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 15:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:56*	*06/02/25 15:19*	*1*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*06/02/25 09:56*	*06/02/25 15:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 15:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 05:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 05:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		06/02/25 08:21	06/03/25 05:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 08:21	06/03/25 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 08:21*	*06/03/25 05:15*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 08:21*	*06/03/25 05:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		9.92		mg/Kg			06/02/25 13:50	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS44

Date Collected: 05/30/25 09:40
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:56	06/02/25 16:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:56	06/02/25 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:56*	*06/02/25 16:53*	*1*
1,4-Difluorobenzene (Surr)	*70*		*70 - 130*	*06/02/25 09:56*	*06/02/25 16:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/02/25 16:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 05:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 05:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		06/02/25 08:21	06/03/25 05:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 08:21	06/03/25 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 08:21*	*06/03/25 05:32*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 08:21*	*06/03/25 05:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**80.2**	**F1**	10.0		mg/Kg			06/02/25 13:57	1

Client Sample ID: CS45

Date Collected: 05/30/25 09:42
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 17:14	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS45

Lab Sample ID: 880-58802-12
Matrix: Solid
Date Collected: 05/30/25 09:42
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/02/25 17:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 05:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/03/25 10:55	06/04/25 05:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/03/25 10:55	06/04/25 05:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/03/25 10:55	06/04/25 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/03/25 10:55*	*06/04/25 05:31*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/03/25 10:55*	*06/04/25 05:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**107**		10.1	mg/Kg			06/02/25 14:19	1

Client Sample ID: CS46

Lab Sample ID: 880-58802-13
Matrix: Solid
Date Collected: 05/30/25 09:44
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 17:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:34*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 17:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 00:26	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS46

Lab Sample ID: 880-58802-13
Matrix: Solid
Date Collected: 05/30/25 09:44
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 00:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 00:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:26*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**118**		9.94		mg/Kg			06/02/25 14:26	1

Client Sample ID: CS47

Lab Sample ID: 880-58802-14
Matrix: Solid
Date Collected: 05/30/25 09:46
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 17:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:55*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*06/02/25 09:56*	*06/02/25 17:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 17:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/03/25 00:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 00:41	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 00:41	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:41*	*1*
o-Terphenyl	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:41*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS47

Lab Sample ID: 880-58802-14
Matrix: Solid
Date Collected: 05/30/25 09:46
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		9.92		mg/Kg			06/02/25 14:47	1

Client Sample ID: CS48

Lab Sample ID: 880-58802-15
Matrix: Solid
Date Collected: 05/30/25 09:48
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:15*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 18:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 00:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 00:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 00:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:58*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 00:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		10.0		mg/Kg			06/02/25 14:54	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS49

Lab Sample ID: 880-58802-16
Matrix: Solid
Date Collected: 05/30/25 09:50
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 18:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:56	06/02/25 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:36*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 18:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 01:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 01:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 01:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:13*	*1*
o-Terphenyl	*74*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**61.6**		9.92		mg/Kg			06/02/25 15:01	1

Client Sample ID: CS50

Lab Sample ID: 880-58802-17
Matrix: Solid
Date Collected: 05/30/25 09:52
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 18:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS50

Lab Sample ID: 880-58802-17
Matrix: Solid
Date Collected: 05/30/25 09:52
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*72*		*70 - 130*	*06/02/25 09:56*	*06/02/25 18:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 18:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/03/25 01:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/02/25 10:46	06/03/25 01:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/02/25 10:46	06/03/25 01:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/02/25 10:46	06/03/25 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:30*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**164**		10.0	mg/Kg			06/02/25 15:08	1

Client Sample ID: CS51

Lab Sample ID: 880-58802-18
Matrix: Solid
Date Collected: 05/30/25 09:54
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:56	06/02/25 19:17	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:56	06/02/25 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:17*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 19:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 01:46	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS51

Lab Sample ID: 880-58802-18
Matrix: Solid
Date Collected: 05/30/25 09:54
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 01:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 01:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:46*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 01:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**109**		9.94		mg/Kg			06/02/25 15:15	1

Client Sample ID: CS52

Lab Sample ID: 880-58802-19
Matrix: Solid
Date Collected: 05/30/25 09:56
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 19:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:37*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			06/03/25 02:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 02:02	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 02:02	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 02:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*06/02/25 10:46*	*06/03/25 02:02*	*1*
o-Terphenyl	*70*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:02*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS52

Lab Sample ID: 880-58802-19
Matrix: Solid
Date Collected: 05/30/25 09:56
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	273		9.92		mg/Kg			06/02/25 16:19	1

Client Sample ID: CS53

Lab Sample ID: 880-58802-20
Matrix: Solid
Date Collected: 05/30/25 09:58
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:56	06/02/25 19:58	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:56	06/02/25 19:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:58*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*06/02/25 09:56*	*06/02/25 19:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:58	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/03/25 02:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 02:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 02:18	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 02:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:18*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		9.92		mg/Kg			06/02/25 16:41	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS70

Lab Sample ID: 880-58802-21
Matrix: Solid
Date Collected: 05/30/25 10:20
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 13:18	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:18*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 13:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 02:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 02:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 02:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 02:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:34*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 02:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**132**		10.0		mg/Kg			06/02/25 16:48	1

Client Sample ID: CS71

Lab Sample ID: 880-58802-22
Matrix: Solid
Date Collected: 05/30/25 10:22
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 13:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:58	06/02/25 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS71

Date Collected: 05/30/25 10:22
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-22

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 13:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/04/25 05:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/03/25 10:55	06/04/25 05:46	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/03/25 10:55	06/04/25 05:46	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/03/25 10:55	06/04/25 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/03/25 10:55*	*06/04/25 05:46*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/03/25 10:55*	*06/04/25 05:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**134**		10.0	mg/Kg			06/02/25 16:55	1

Client Sample ID: CS72

Date Collected: 05/30/25 10:24
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-23

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:58	06/02/25 13:59	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/02/25 09:58	06/02/25 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:59*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:58*	*06/02/25 13:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/02/25 13:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			06/03/25 03:21	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS72

Lab Sample ID: 880-58802-23
Matrix: Solid
Date Collected: 05/30/25 10:24
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 03:21	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 03:21	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:46	06/03/25 03:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:21*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**88.2**		10.0		mg/Kg			06/02/25 17:03	1

Client Sample ID: CS73

Lab Sample ID: 880-58802-24
Matrix: Solid
Date Collected: 05/30/25 10:26
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 14:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 14:19*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 14:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 14:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 03:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:38	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:38	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:38*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:38*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS73
Date Collected: 05/30/25 10:26
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-24
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		10.1		mg/Kg			06/02/25 17:25	1

Client Sample ID: CS74
Date Collected: 05/30/25 10:28
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-25
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 14:40	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/25 09:58	06/02/25 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/02/25 09:58*	*06/02/25 14:40*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:58*	*06/02/25 14:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/02/25 14:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/03/25 03:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:54	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:54	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:46	06/03/25 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:54*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 03:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	106		9.96		mg/Kg			06/02/25 17:32	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS75

Date Collected: 05/30/25 10:30
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-26
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 15:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:58	06/02/25 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:00*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 15:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 04:10	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 04:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 04:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:46	06/03/25 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 10:46*	*06/03/25 04:10*	*1*
o-Terphenyl	*74*		*70 - 130*	*06/02/25 10:46*	*06/03/25 04:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**133**		9.92		mg/Kg			06/02/25 17:39	1

Client Sample ID: CS76

Date Collected: 05/30/25 10:32
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-27
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 15:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:21*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS76

Lab Sample ID: 880-58802-27
Matrix: Solid
Date Collected: 05/30/25 10:32
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 15:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/04/25 06:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/03/25 10:55	06/04/25 06:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/03/25 10:55	06/04/25 06:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/03/25 10:55	06/04/25 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/03/25 10:55*	*06/04/25 06:03*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/03/25 10:55*	*06/04/25 06:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**122**		10.0	mg/Kg			06/02/25 17:47	1

Client Sample ID: CS77

Lab Sample ID: 880-58802-28
Matrix: Solid
Date Collected: 05/30/25 10:34
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 15:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:41*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:58*	*06/02/25 15:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 15:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 06:19	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS77

Lab Sample ID: 880-58802-28
Matrix: Solid
Date Collected: 05/30/25 10:34
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 06:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 06:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*06/03/25 10:55*	*06/04/25 06:19*	*1*
o-Terphenyl	*135*	*S1+*	*70 - 130*	*06/03/25 10:55*	*06/04/25 06:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**102**		10.1		mg/Kg			06/02/25 17:54	1

Client Sample ID: CS81

Lab Sample ID: 880-58802-29
Matrix: Solid
Date Collected: 05/30/25 10:36
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:58	06/02/25 16:02	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:58	06/02/25 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/02/25 09:58*	*06/02/25 16:02*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/02/25 09:58*	*06/02/25 16:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 16:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			06/03/25 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 04:59	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 04:59	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		06/02/25 10:46	06/03/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*06/02/25 10:46*	*06/03/25 04:59*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:46*	*06/03/25 04:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS81
Date Collected: 05/30/25 10:36
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-29
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130	F1	9.96		mg/Kg			06/02/25 18:01	1

Client Sample ID: CS82
Date Collected: 05/30/25 10:38
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-30
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 16:22	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/02/25 09:58*	*06/02/25 16:22*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*06/02/25 09:58*	*06/02/25 16:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 16:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 05:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 05:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 05:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/03/25 05:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 05:15*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:46*	*06/03/25 05:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	143		9.92		mg/Kg			06/02/25 18:23	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS83

Date Collected: 05/30/25 10:40
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-31
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:58	06/02/25 18:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:58	06/02/25 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:13*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/02/25 18:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/03/25 05:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 10:46	06/03/25 05:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 10:46	06/03/25 05:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 10:46	06/03/25 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:46*	*06/03/25 05:32*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 10:46*	*06/03/25 05:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**118**		9.98		mg/Kg			06/02/25 18:30	1

Client Sample ID: CS84

Date Collected: 05/30/25 10:42
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-32
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 18:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:33*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS84
Date Collected: 05/30/25 10:42
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-32
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/02/25 18:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/04/25 01:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 01:00	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 01:00	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 01:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 01:00*	*1*
o-Terphenyl	*71*		*70 - 130*	*06/02/25 10:53*	*06/04/25 01:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**161**		10.0	mg/Kg			06/02/25 18:52	1

Client Sample ID: CS139
Date Collected: 05/30/25 10:44
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-33
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 18:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:54*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*06/02/25 09:58*	*06/02/25 18:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 18:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 01:48	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS139

Date Collected: 05/30/25 10:44
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-33
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 01:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 01:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*06/02/25 10:53*	*06/04/25 01:48*	*1*
o-Terphenyl	*85*		*70 - 130*	*06/02/25 10:53*	*06/04/25 01:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**		10.1		mg/Kg			06/02/25 19:00	1

Client Sample ID: CS140

Date Collected: 05/30/25 10:46
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-34
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:14*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/04/25 02:05	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 02:05	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 02:05	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:05*	*1*
o-Terphenyl	*73*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:05*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS140
Date Collected: 05/30/25 10:46
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-34
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		9.94		mg/Kg			06/02/25 19:07	1

Client Sample ID: CS145
Date Collected: 05/30/25 10:48
Date Received: 05/30/25 16:06
Sample Depth: 3'

Lab Sample ID: 880-58802-35
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:35*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/04/25 02:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 02:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 02:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 02:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:20*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	133		9.96		mg/Kg			06/02/25 19:14	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS146

Lab Sample ID: 880-58802-36
Matrix: Solid
Date Collected: 05/30/25 10:50
Date Received: 05/30/25 16:06
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		06/02/25 09:58	06/02/25 19:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 19:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 19:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 19:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 19:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:58	06/02/25 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:55*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*06/02/25 09:58*	*06/02/25 19:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 19:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/04/25 02:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 02:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 02:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:37*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**146**		9.92		mg/Kg			06/02/25 19:22	1

Client Sample ID: CS150

Lab Sample ID: 880-58802-37
Matrix: Solid
Date Collected: 05/30/25 10:52
Date Received: 05/30/25 16:06
Sample Depth: 3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:15*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS150
Date Collected: 05/30/25 10:52
Date Received: 05/30/25 16:06
Sample Depth: 3'

Lab Sample ID: 880-58802-37
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 20:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/04/25 02:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		06/02/25 10:53	06/04/25 02:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		06/02/25 10:53	06/04/25 02:52	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		06/02/25 10:53	06/04/25 02:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:52*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 02:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**108**		10.0	mg/Kg			06/02/25 19:29	1

Client Sample ID: CS151
Date Collected: 05/30/25 10:54
Date Received: 05/30/25 16:06
Sample Depth: 3.5'

Lab Sample ID: 880-58802-38
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:58	06/02/25 20:36	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:58	06/02/25 20:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:36*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 20:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/04/25 03:08	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS151
Date Collected: 05/30/25 10:54
Date Received: 05/30/25 16:06
Sample Depth: 3.5'

Lab Sample ID: 880-58802-38
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:08	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:08	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:08*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		10.1		mg/Kg			06/02/25 19:36	1

Client Sample ID: CS167
Date Collected: 05/30/25 10:56
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-39
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 20:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*	*06/02/25 09:58*	*06/02/25 20:56*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/02/25 09:58*	*06/02/25 20:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 20:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/04/25 03:24	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:24	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:24	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 03:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:24*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:24*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS167
Date Collected: 05/30/25 10:56
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-39
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.2	F1	10.0		mg/Kg			06/02/25 16:26	1

Client Sample ID: CS168
Date Collected: 05/30/25 10:58
Date Received: 05/30/25 16:06
Sample Depth: 1.5'

Lab Sample ID: 880-58802-40
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:58	06/02/25 21:17	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:58	06/02/25 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*06/02/25 09:58*	*06/02/25 21:17*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*06/02/25 09:58*	*06/02/25 21:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 21:17	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/04/25 03:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 03:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 03:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 03:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:40*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	173		10.2		mg/Kg			06/02/25 16:47	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS26

Lab Sample ID: 880-58802-41
Matrix: Solid
Date Collected: 05/30/25 09:20
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:34	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		06/02/25 09:59	06/02/25 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/02/25 09:59*	*06/02/25 18:34*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/02/25 18:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 18:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/04/25 03:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 03:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 03:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:55*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/02/25 10:53*	*06/04/25 03:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**193**		9.92		mg/Kg			06/02/25 16:55	1

Client Sample ID: CS27

Lab Sample ID: 880-58802-42
Matrix: Solid
Date Collected: 05/30/25 09:22
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 18:54	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:59	06/02/25 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/02/25 18:54*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS27
Date Collected: 05/30/25 09:22
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-42
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/02/25 18:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 18:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/04/25 04:26	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 04:26	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 04:26	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		06/02/25 10:53	06/04/25 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:26*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		10.0	mg/Kg			06/02/25 17:02	1

Client Sample ID: CS29
Date Collected: 05/30/25 09:24
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-43
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/02/25 09:59	06/02/25 19:15	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/02/25 09:59	06/02/25 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:15*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:15*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/02/25 19:15	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 04:43	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS29
Date Collected: 05/30/25 09:24
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-43
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 04:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 04:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 04:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:43*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**129**		9.96		mg/Kg			06/02/25 17:09	1

Client Sample ID: CS31
Date Collected: 05/30/25 09:26
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-44
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/02/25 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:35*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/02/25 19:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/04/25 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 04:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 04:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 10:53	06/04/25 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*06/02/25 10:53*	*06/04/25 04:59*	*1*
o-Terphenyl	*72*		*70 - 130*	*06/02/25 10:53*	*06/04/25 04:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS31
Date Collected: 05/30/25 09:26
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-44
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		9.92		mg/Kg			06/02/25 17:30	1

Client Sample ID: CS32
Date Collected: 05/30/25 09:28
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-45
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 19:56	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/25 09:59	06/02/25 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:56*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/02/25 19:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/02/25 19:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/04/25 05:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 05:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 05:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:14*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	128		10.0		mg/Kg			06/02/25 17:37	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS35

Date Collected: 05/30/25 09:30
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-46
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 20:16	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:59	06/02/25 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:16*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 20:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/04/25 05:31	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 05:31	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 05:31	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 10:53	06/04/25 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:31*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:31*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**114**		9.94		mg/Kg			06/02/25 17:44	1

Client Sample ID: CS36

Date Collected: 05/30/25 09:32
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-47
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/02/25 20:37	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/02/25 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:37*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS36
Date Collected: 05/30/25 09:32
Date Received: 05/30/25 16:06
Sample Depth: 0.5'

Lab Sample ID: 880-58802-47
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:37*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/02/25 20:37	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/04/25 05:46	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/02/25 10:53	06/04/25 05:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/02/25 10:53	06/04/25 05:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/02/25 10:53	06/04/25 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:46*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 05:46*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		9.96	mg/Kg			06/02/25 17:51	1

Client Sample ID: CS39
Date Collected: 05/30/25 09:34
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-48
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 20:57	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/02/25 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:57*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 20:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 20:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/04/25 06:03	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS39

Lab Sample ID: 880-58802-48
Matrix: Solid
Date Collected: 05/30/25 09:34
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 06:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 06:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 10:53	06/04/25 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:03*	*1*
o-Terphenyl	*82*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:03*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**113**		9.92		mg/Kg			06/02/25 17:58	1

Client Sample ID: CS40

Lab Sample ID: 880-58802-49
Matrix: Solid
Date Collected: 05/30/25 09:36
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 09:59	06/02/25 21:18	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 09:59	06/02/25 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*06/02/25 09:59*	*06/02/25 21:18*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 21:18*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/02/25 21:18	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/04/25 06:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:19	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:19	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:19*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:19*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS40

Lab Sample ID: 880-58802-49
Matrix: Solid
Date Collected: 05/30/25 09:36
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.2	F1	10.0		mg/Kg			06/02/25 18:05	1

Client Sample ID: CS43

Lab Sample ID: 880-58802-50
Matrix: Solid
Date Collected: 05/30/25 09:38
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 21:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/02/25 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 21:38*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 21:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/02/25 21:38	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			06/04/25 06:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:36	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:36	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 10:53	06/04/25 06:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:36*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		10.1		mg/Kg			06/02/25 18:27	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS54

Lab Sample ID: 880-58802-51
Matrix: Solid
Date Collected: 05/30/25 10:00
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 09:59	06/02/25 23:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 09:59	06/02/25 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:02*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/02/25 23:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/04/25 06:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 06:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 06:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 06:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:51*	*1*
o-Terphenyl	*79*		*70 - 130*	*06/02/25 10:53*	*06/04/25 06:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**145**		9.94		mg/Kg			06/02/25 18:34	1

Client Sample ID: CS55

Lab Sample ID: 880-58802-52
Matrix: Solid
Date Collected: 05/30/25 10:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 23:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/02/25 23:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:23*	*1*

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS55
Date Collected: 05/30/25 10:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-52
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/02/25 23:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			06/03/25 16:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		06/02/25 11:00	06/03/25 16:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		06/02/25 11:00	06/03/25 16:59	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		06/02/25 11:00	06/03/25 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 11:00*	*06/03/25 16:59*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 11:00*	*06/03/25 16:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**67.6**		9.96	mg/Kg			06/02/25 18:55	1

Client Sample ID: CS56
Date Collected: 05/30/25 10:04
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-53
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/02/25 23:43	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/02/25 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:43*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/02/25 23:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/02/25 23:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 17:47	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS56

Lab Sample ID: 880-58802-53
Matrix: Solid
Date Collected: 05/30/25 10:04
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 17:47	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 17:47	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*06/02/25 11:00*	*06/03/25 17:47*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/02/25 11:00*	*06/03/25 17:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**97.0**		9.98		mg/Kg			06/02/25 19:02	1

Client Sample ID: CS57

Lab Sample ID: 880-58802-54
Matrix: Solid
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:04*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 00:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/03/25 18:03	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 18:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 18:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*69*	*S1-*	*70 - 130*	*06/02/25 11:00*	*06/03/25 18:03*	*1*
o-Terphenyl	*70*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:03*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS57
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-54
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		10.0		mg/Kg			06/02/25 19:09	1

Client Sample ID: CS58
Date Collected: 05/30/25 10:08
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-55
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 00:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:24*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 00:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/03/25 18:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 18:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 18:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:19*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.6		10.0		mg/Kg			06/02/25 19:16	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS59
Date Collected: 05/30/25 10:10
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-56
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/03/25 00:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 09:59	06/03/25 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:45*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/03/25 00:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/03/25 00:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/03/25 18:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 18:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 18:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:35*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**216**		10.1		mg/Kg			06/02/25 19:23	1

Client Sample ID: CS65
Date Collected: 05/30/25 10:12
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-57
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:06*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS65
Date Collected: 05/30/25 10:12
Date Received: 05/30/25 16:06
Sample Depth: 2'

Lab Sample ID: 880-58802-57
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/25 01:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 18:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 18:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 18:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:51*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 11:00*	*06/03/25 18:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**126**		10.0	mg/Kg			06/02/25 19:30	1

Client Sample ID: CS67
Date Collected: 05/30/25 10:14
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-58
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
Toluene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		06/02/25 09:59	06/03/25 01:26	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		06/02/25 09:59	06/03/25 01:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:26*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/03/25 01:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			06/03/25 19:07	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS67

Lab Sample ID: 880-58802-58
Matrix: Solid
Date Collected: 05/30/25 10:14
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 19:07	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 19:07	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		06/02/25 11:00	06/03/25 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:07*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		9.96		mg/Kg			06/02/25 19:37	1

Client Sample ID: CS68

Lab Sample ID: 880-58802-59
Matrix: Solid
Date Collected: 05/30/25 10:16
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 01:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 01:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:47*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/03/25 01:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 01:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/03/25 19:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:23	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:23	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:23*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:23*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS68

Lab Sample ID: 880-58802-59
Matrix: Solid
Date Collected: 05/30/25 10:16
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	86.4		10.0		mg/Kg			06/03/25 12:46	1

Client Sample ID: CS69

Lab Sample ID: 880-58802-60
Matrix: Solid
Date Collected: 05/30/25 10:18
Date Received: 05/30/25 16:06
Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 09:59	06/03/25 02:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 09:59	06/03/25 02:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:59*	*06/03/25 02:07*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/02/25 09:59*	*06/03/25 02:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 02:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			06/03/25 19:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:39	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:39	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		06/02/25 11:00	06/03/25 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:39*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	109		10.1		mg/Kg			06/03/25 12:53	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS170
Date Collected: 05/30/25 11:00
Date Received: 05/30/25 16:06
Sample Depth: 3'

Lab Sample ID: 880-58802-61
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/02/25 10:03	06/03/25 11:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/02/25 10:03	06/03/25 11:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/02/25 10:03*	*06/03/25 11:32*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 10:03*	*06/03/25 11:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/03/25 11:32	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			06/03/25 19:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 19:55	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 19:55	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:55*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 19:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**111**		9.94		mg/Kg			06/03/25 13:00	1

Client Sample ID: CS178
Date Collected: 05/30/25 11:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-62
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/02/25 10:03	06/03/25 11:53	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/02/25 10:03	06/03/25 11:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/02/25 10:03*	*06/03/25 11:53*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS178
Date Collected: 05/30/25 11:02
Date Received: 05/30/25 16:06
Sample Depth: 1'

Lab Sample ID: 880-58802-62
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/02/25 10:03*	*06/03/25 11:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/03/25 11:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/03/25 20:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 20:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 20:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/02/25 11:00	06/03/25 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*06/02/25 11:00*	*06/03/25 20:27*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 20:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**135**		9.92	mg/Kg			06/03/25 13:08	1

Client Sample ID: SW06
Date Collected: 05/30/25 11:04
Date Received: 05/30/25 16:06
Sample Depth: 0-1'

Lab Sample ID: 880-58802-63
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
Toluene	<0.00202	U	0.00202	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		06/02/25 10:03	06/03/25 12:13	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		06/02/25 10:03	06/03/25 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:13*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			06/03/25 12:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			06/03/25 20:43	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW06

Lab Sample ID: 880-58802-63
Matrix: Solid
Date Collected: 05/30/25 11:04
Date Received: 05/30/25 16:06
Sample Depth: 0-1'

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 20:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 20:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/02/25 11:00	06/03/25 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/02/25 11:00*	*06/03/25 20:43*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 20:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**72.9**		10.0		mg/Kg			06/03/25 13:42	1

Client Sample ID: SW08

Lab Sample ID: 880-58802-64
Matrix: Solid
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06
Sample Depth: 0-3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 12:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 10:03	06/03/25 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:34*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/03/25 12:34	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**57.4**		50.0		mg/Kg			06/05/25 10:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 10:37	1
Diesel Range Organics (Over C10-C28)	**57.4**		50.0		mg/Kg		06/04/25 12:24	06/05/25 10:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*06/04/25 12:24*	*06/05/25 10:37*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/04/25 12:24*	*06/05/25 10:37*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW08

Lab Sample ID: 880-58802-64
Matrix: Solid
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06
Sample Depth: 0-3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		9.96		mg/Kg			06/03/25 13:49	1

Client Sample ID: SW10

Lab Sample ID: 880-58802-65
Matrix: Solid
Date Collected: 05/30/25 10:08
Date Received: 05/30/25 16:06
Sample Depth: 0-3'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 12:54	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		06/02/25 10:03	06/03/25 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:54*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/02/25 10:03*	*06/03/25 12:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			06/03/25 12:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			06/03/25 21:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 21:15	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 21:15	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		06/02/25 11:00	06/03/25 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:15*	*1*
o-Terphenyl	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.8		9.98		mg/Kg			06/03/25 13:56	1

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW11

Lab Sample ID: 880-58802-66
Matrix: Solid
Date Collected: 05/30/25 11:10
Date Received: 05/30/25 16:06
Sample Depth: 0-2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/02/25 10:03	06/03/25 13:14	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/02/25 10:03	06/03/25 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/02/25 10:03*	*06/03/25 13:14*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*06/02/25 10:03*	*06/03/25 13:14*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/03/25 13:14	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/03/25 21:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 21:32	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 21:32	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 11:00	06/03/25 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*76*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:32*	*1*
o-Terphenyl	*81*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**119**		9.94		mg/Kg			06/03/25 14:03	1

Client Sample ID: SW13

Lab Sample ID: 880-58802-67
Matrix: Solid
Date Collected: 05/30/25 11:12
Date Received: 05/30/25 16:06
Sample Depth: 0-2'

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/02/25 10:03	06/03/25 13:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/02/25 10:03	06/03/25 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 10:03*	*06/03/25 13:35*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW13
Date Collected: 05/30/25 11:12
Date Received: 05/30/25 16:06
Sample Depth: 0-2'

Lab Sample ID: 880-58802-67
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/02/25 10:03*	*06/03/25 13:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			06/03/25 13:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			06/03/25 21:47	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		06/02/25 11:00	06/03/25 21:47	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		06/02/25 11:00	06/03/25 21:47	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		06/02/25 11:00	06/03/25 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*73*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:47*	*1*
o-Terphenyl	*77*		*70 - 130*	*06/02/25 11:00*	*06/03/25 21:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		10.0	mg/Kg			06/03/25 14:10	1

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-58802-1	CS10	110	73
880-58802-1 MS	CS10	100	83
880-58802-1 MSD	CS10	109	82
880-58802-2	CS11	102	77
880-58802-3	CS13	107	77
880-58802-4	CS16	96	74
880-58802-5	CS19	102	74
880-58802-6	CS21	104	78
880-58802-7	CS22	100	76
880-58802-8	CS23	103	76
880-58802-9	CS24	105	74
880-58802-10	CS25	105	72
880-58802-11	CS44	105	70
880-58802-12	CS45	105	73
880-58802-13	CS46	110	73
880-58802-14	CS47	101	73
880-58802-15	CS48	107	75
880-58802-16	CS49	101	74
880-58802-17	CS50	95	72
880-58802-18	CS51	98	75
880-58802-19	CS52	102	74
880-58802-20	CS53	100	74
880-58802-21	CS70	79	98
880-58802-21 MS	CS70	92	89
880-58802-21 MSD	CS70	98	101
880-58802-22	CS71	105	113
880-58802-23	CS72	96	100
880-58802-24	CS73	109	109
880-58802-25	CS74	112	105
880-58802-26	CS75	112	110
880-58802-27	CS76	117	117
880-58802-28	CS77	104	105
880-58802-29	CS81	111	103
880-58802-30	CS82	106	103
880-58802-31	CS83	89	102
880-58802-32	CS84	107	109
880-58802-33	CS139	112	111
880-58802-34	CS140	111	109
880-58802-35	CS145	120	110
880-58802-36	CS146	113	111
880-58802-37	CS150	128	115
880-58802-38	CS151	122	105
880-58802-39	CS167	136 S1+	109
880-58802-40	CS168	121	107
880-58802-41	CS26	91	96
880-58802-41 MS	CS26	109	98
880-58802-41 MSD	CS26	111	89
880-58802-42	CS27	92	96
880-58802-43	CS29	91	97

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-58802-44	CS31	96	97
880-58802-45	CS32	91	95
880-58802-46	CS35	93	96
880-58802-47	CS36	95	100
880-58802-48	CS39	92	94
880-58802-49	CS40	91	94
880-58802-50	CS43	94	94
880-58802-51	CS54	92	81
880-58802-52	CS55	97	95
880-58802-53	CS56	92	94
880-58802-54	CS57	100	100
880-58802-55	CS58	95	100
880-58802-56	CS59	92	92
880-58802-57	CS65	95	96
880-58802-58	CS67	92	94
880-58802-59	CS68	98	97
880-58802-60	CS69	94	97
880-58802-61	CS170	106	102
880-58802-61 MS	CS170	93	90
880-58802-61 MSD	CS170	100	96
880-58802-62	CS178	104	100
880-58802-63	SW06	106	98
880-58802-64	SW08	108	104
880-58802-65	SW10	103	101
880-58802-66	SW11	102	101
880-58802-67	SW13	98	99
LCS 880-111293/1-A	Lab Control Sample	103	84
LCS 880-111295/1-A	Lab Control Sample	94	98
LCS 880-111296/1-A	Lab Control Sample	106	102
LCS 880-111298/1-A	Lab Control Sample	95	90
LCSD 880-111293/2-A	Lab Control Sample Dup	96	84
LCSD 880-111295/2-A	Lab Control Sample Dup	98	97
LCSD 880-111296/2-A	Lab Control Sample Dup	109	100
LCSD 880-111298/2-A	Lab Control Sample Dup	96	85
MB 880-111293/5-A	Method Blank	98	71
MB 880-111295/5-A	Method Blank	147 S1+	94
MB 880-111296/5-A	Method Blank	84	90
MB 880-111298/5-A	Method Blank	94	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-58802-1	CS10	73	77
880-58802-2	CS11	73	78

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-58802-3	CS13	73	77								
880-58802-4	CS16	74	78								
880-58802-5	CS19	70	73								
880-58802-6	CS21	72	76								
880-58802-7	CS22	70	75								
880-58802-8	CS23	73	76								
880-58802-9	CS24	71	75								
880-58802-10	CS25	73	77								
880-58802-11	CS44	72	77								
880-58802-12	CS45	74	75								
880-58802-12 MS	CS45	68 S1-	73								
880-58802-12 MSD	CS45	69 S1-	73								
880-58802-13	CS46	71	73								
880-58802-14	CS47	71	71								
880-58802-15	CS48	71	72								
880-58802-16	CS49	73	74								
880-58802-17	CS50	71	72								
880-58802-18	CS51	72	73								
880-58802-19	CS52	69 S1-	70								
880-58802-20	CS53	71	72								
880-58802-21	CS70	72	73								
880-58802-22	CS71	78	78								
880-58802-23	CS72	71	73								
880-58802-24	CS73	72	72								
880-58802-25	CS74	72	73								
880-58802-26	CS75	73	74								
880-58802-27	CS76	71	73								
880-58802-28	CS77	133 S1+	135 S1+								
880-58802-29	CS81	79	78								
880-58802-30	CS82	72	72								
880-58802-31	CS83	75	77								
880-58802-32	CS84	74	71								
880-58802-32 MS	CS84	86	73								
880-58802-32 MSD	CS84	72	74								
880-58802-33	CS139	81	85								
880-58802-34	CS140	76	73								
880-58802-35	CS145	74	79								
880-58802-36	CS146	75	78								
880-58802-37	CS150	74	78								
880-58802-38	CS151	72	76								
880-58802-39	CS167	74	77								
880-58802-40	CS168	76	79								
880-58802-41	CS26	75	79								
880-58802-42	CS27	73	78								
880-58802-43	CS29	74	77								
880-58802-44	CS31	69 S1-	72								
880-58802-45	CS32	75	81								
880-58802-46	CS35	73	76								
880-58802-47	CS36	74	78								
880-58802-48	CS39	78	82								

Surrogate Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-58802-49	CS40	75	78
880-58802-50	CS43	74	78
880-58802-51	CS54	77	79
880-58802-52	CS55	71	75
880-58802-52 MS	CS55	81	72
880-58802-52 MSD	CS55	67 S1-	74
880-58802-53	CS56	77	81
880-58802-54	CS57	69 S1-	70
880-58802-55	CS58	72	75
880-58802-56	CS59	71	75
880-58802-57	CS65	72	77
880-58802-58	CS67	72	75
880-58802-59	CS68	72	76
880-58802-60	CS69	71	76
880-58802-61	CS170	72	76
880-58802-62	CS178	74	76
880-58802-63	SW06	72	76
880-58802-64	SW08	126	122
880-58802-65	SW10	73	76
880-58802-66	SW11	76	81
880-58802-67	SW13	73	77
LCS 880-111283/2-A	Lab Control Sample	109	101
LCS 880-111324/2-A	Lab Control Sample	99	107
LCS 880-111325/2-A	Lab Control Sample	120	110
LCS 880-111328/2-A	Lab Control Sample	85	97
LCS 880-111384/2-A	Lab Control Sample	127	112
LCS 880-111501/2-A	Lab Control Sample	87	90
LCSD 880-111283/3-A	Lab Control Sample Dup	118	132 S1+
LCSD 880-111324/3-A	Lab Control Sample Dup	98	106
LCSD 880-111325/3-A	Lab Control Sample Dup	104	96
LCSD 880-111328/3-A	Lab Control Sample Dup	106	99
LCSD 880-111384/3-A	Lab Control Sample Dup	104	112
LCSD 880-111501/3-A	Lab Control Sample Dup	90	92
MB 880-111283/1-A	Method Blank	66 S1-	69 S1-
MB 880-111324/1-A	Method Blank	128	133 S1+
MB 880-111325/1-A	Method Blank	77	83
MB 880-111328/1-A	Method Blank	79	78
MB 880-111384/1-A	Method Blank	77	77
MB 880-111501/1-A	Method Blank	128	122

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111293/5-A
Matrix: Solid
Analysis Batch: 111281

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111293

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:56	06/02/25 11:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/25 09:56	06/02/25 11:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/02/25 09:56*	*06/02/25 11:52*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*06/02/25 09:56*	*06/02/25 11:52*	*1*

Lab Sample ID: LCS 880-111293/1-A
Matrix: Solid
Analysis Batch: 111281

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111293

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1031		mg/Kg		103	70 - 130		
Toluene			0.100	0.09661		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1015		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2043		mg/Kg		102	70 - 130		
o-Xylene			0.100	0.1040		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: LCSD 880-111293/2-A
Matrix: Solid
Analysis Batch: 111281

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111293

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09476		mg/Kg		95	70 - 130	8	35
Toluene			0.100	0.08655		mg/Kg		87	70 - 130	11	35
Ethylbenzene			0.100	0.08976		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.1770		mg/Kg		88	70 - 130	14	35
o-Xylene			0.100	0.09130		mg/Kg		91	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: 880-58802-1 MS
Matrix: Solid
Analysis Batch: 111281

Client Sample ID: CS10
Prep Type: Total/NA
Prep Batch: 111293

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09453		mg/Kg		95	70 - 130		
Toluene	<0.00200	U	0.100	0.08539		mg/Kg		85	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-58802-1 MS — **Client Sample ID: CS10**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111281 — **Prep Batch: 111293**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.08870		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1751		mg/Kg		88	70 - 130
o-Xylene	<0.00200	U	0.100	0.08979		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*

Lab Sample ID: 880-58802-1 MSD — **Client Sample ID: CS10**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111281 — **Prep Batch: 111293**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09491		mg/Kg		95	70 - 130	0	35
Toluene	<0.00200	U	0.100	0.08604		mg/Kg		86	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.08840		mg/Kg		88	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1746		mg/Kg		87	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.08952		mg/Kg		90	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*

Lab Sample ID: MB 880-111295/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111288 — **Prep Batch: 111295**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:58	06/02/25 12:49	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/25 09:58	06/02/25 12:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*06/02/25 09:58*	*06/02/25 12:49*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/02/25 09:58*	*06/02/25 12:49*	*1*

Lab Sample ID: LCS 880-111295/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 111288 — **Prep Batch: 111295**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1033		mg/Kg		103	70 - 130
Toluene	0.100	0.1039		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1063		mg/Kg		106	70 - 130
m-Xylene & p-Xylene	0.200	0.1758		mg/Kg		88	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-111295/1-A
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111295

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1105		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-111295/2-A
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111295

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1043		mg/Kg		104	70 - 130	1	35
Toluene			0.100	0.1075		mg/Kg		108	70 - 130	3	35
Ethylbenzene			0.100	0.1070		mg/Kg		107	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1901		mg/Kg		95	70 - 130	8	35
o-Xylene			0.100	0.1231		mg/Kg		123	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-58802-21 MS
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: CS70
Prep Type: Total/NA
Prep Batch: 111295

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08392		mg/Kg		84	70 - 130		
Toluene	<0.00200	U	0.100	0.09020		mg/Kg		90	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08495		mg/Kg		85	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1666		mg/Kg		83	70 - 130		
o-Xylene	<0.00200	U	0.100	0.09187		mg/Kg		92	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 880-58802-21 MSD
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: CS70
Prep Type: Total/NA
Prep Batch: 111295

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1033		mg/Kg		103	70 - 130	21	35
Toluene	<0.00200	U	0.100	0.09122		mg/Kg		91	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.1072		mg/Kg		107	70 - 130	23	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1955		mg/Kg		98	70 - 130	16	35
o-Xylene	<0.00200	U	0.100	0.1075		mg/Kg		108	70 - 130	16	35

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-58802-21 MSD
Matrix: Solid
Analysis Batch: 111288

Client Sample ID: CS70
Prep Type: Total/NA
Prep Batch: 111295

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-111296/5-A
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111296

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 09:59	06/02/25 18:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/25 09:59	06/02/25 18:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	06/02/25 09:59	06/02/25 18:12	1
1,4-Difluorobenzene (Surr)	90		70 - 130	06/02/25 09:59	06/02/25 18:12	1

Lab Sample ID: LCS 880-111296/1-A
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111296

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1045		mg/Kg		104	70 - 130		
Toluene			0.100	0.09969		mg/Kg		100	70 - 130		
Ethylbenzene			0.100	0.1055		mg/Kg		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2057		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.09859		mg/Kg		99	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-111296/2-A
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111296

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1080		mg/Kg		108	70 - 130	3	35
Toluene			0.100	0.09764		mg/Kg		98	70 - 130	2	35
Ethylbenzene			0.100	0.1108		mg/Kg		111	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2124		mg/Kg		106	70 - 130	3	35
o-Xylene			0.100	0.1024		mg/Kg		102	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-111296/2-A
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111296

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-58802-41 MS
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: CS26
Prep Type: Total/NA
Prep Batch: 111296

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08236		mg/Kg		82	70 - 130
Toluene	<0.00200	U	0.100	0.07616		mg/Kg		76	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.07898		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1480		mg/Kg		74	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.07177		mg/Kg		72	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-58802-41 MSD
Matrix: Solid
Analysis Batch: 111341

Client Sample ID: CS26
Prep Type: Total/NA
Prep Batch: 111296

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07814		mg/Kg		78	70 - 130	5	35
Toluene	<0.00200	U	0.100	0.07462		mg/Kg		75	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.07362		mg/Kg		74	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1374	F1	mg/Kg		69	70 - 130	7	35
o-Xylene	<0.00200	U F1	0.100	0.06616	F1	mg/Kg		66	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: MB 880-111298/5-A
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111298

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/02/25 10:03	06/03/25 11:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/02/25 10:03	06/03/25 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	06/02/25 10:03	06/03/25 11:11	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/02/25 10:03	06/03/25 11:11	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-111298/1-A
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111298

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1098		mg/Kg		110	70 - 130		
Toluene			0.100	0.1007		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.1074		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.2155		mg/Kg		108	70 - 130		
o-Xylene			0.100	0.1068		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-111298/2-A
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111298

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1118		mg/Kg		112	70 - 130	2	35
Toluene			0.100	0.1047		mg/Kg		105	70 - 130	4	35
Ethylbenzene			0.100	0.1098		mg/Kg		110	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2196		mg/Kg		110	70 - 130	2	35
o-Xylene			0.100	0.1096		mg/Kg		110	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*

Lab Sample ID: 880-58802-61 MS
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: CS170
Prep Type: Total/NA
Prep Batch: 111298

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08600		mg/Kg		86	70 - 130		
Toluene	<0.00200	U	0.100	0.07440		mg/Kg		74	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.07625		mg/Kg		76	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1484		mg/Kg		74	70 - 130		
o-Xylene	<0.00200	U	0.100	0.07554		mg/Kg		76	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-58802-61 MSD
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: CS170
Prep Type: Total/NA
Prep Batch: 111298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.08584		mg/Kg		86	70 - 130	0	35
Toluene	<0.00200	U	0.100	0.07345		mg/Kg		73	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.07497		mg/Kg		75	70 - 130	2	35

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-58802-61 MSD
Matrix: Solid
Analysis Batch: 111355

Client Sample ID: CS170
Prep Type: Total/NA
Prep Batch: 111298

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1478		mg/Kg		74	70 - 130	0	35
o-Xylene	<0.00200	U	0.100	0.07578		mg/Kg		76	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-111283/1-A
Matrix: Solid
Analysis Batch: 111332

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111283

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/02/25 08:21	06/02/25 22:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/02/25 08:21	06/02/25 22:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/02/25 08:21	06/02/25 22:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*66*	*S1-*	*70 - 130*	*06/02/25 08:21*	*06/02/25 22:33*	*1*
o-Terphenyl	*69*	*S1-*	*70 - 130*	*06/02/25 08:21*	*06/02/25 22:33*	*1*

Lab Sample ID: LCS 880-111283/2-A
Matrix: Solid
Analysis Batch: 111332

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111283

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	834.3		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	886.8		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Lab Sample ID: LCSD 880-111283/3-A
Matrix: Solid
Analysis Batch: 111332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111283

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1154	*1	mg/Kg		115	70 - 130	32	20
Diesel Range Organics (Over C10-C28)			1000	1271	*1	mg/Kg		127	70 - 130	36	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-111283/3-A
Matrix: Solid
Analysis Batch: 111332

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111283

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*132*	*S1+*	*70 - 130*

Lab Sample ID: MB 880-111324/1-A
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111324

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/02/25 22:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/02/25 22:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:46	06/02/25 22:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*06/02/25 10:46*	*06/02/25 22:49*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*06/02/25 10:46*	*06/02/25 22:49*	*1*

Lab Sample ID: LCS 880-111324/2-A
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111324

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	889.4		mg/Kg		89	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1024		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-111324/3-A
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111324

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	893.6		mg/Kg		89	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	988.9		mg/Kg		99	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*106*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-58802-12 MS
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: CS45
Prep Type: Total/NA
Prep Batch: 111324

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	807.7		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	856.8		mg/Kg		86	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*68*	*S1-*	*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: 880-58802-12 MSD
Matrix: Solid
Analysis Batch: 111334

Client Sample ID: CS45
Prep Type: Total/NA
Prep Batch: 111324

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	794.1		mg/Kg		79	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	850.4		mg/Kg		85	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*69*	*S1-*	*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Lab Sample ID: MB 880-111325/1-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111325

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 00:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 10:53	06/04/25 00:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*77*		*70 - 130*	*06/02/25 10:53*	*06/04/25 00:12*	*1*
o-Terphenyl	*83*		*70 - 130*	*06/02/25 10:53*	*06/04/25 00:12*	*1*

Lab Sample ID: LCS 880-111325/2-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111325

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	900.6		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)			1000	974.9		mg/Kg		97	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-111325/2-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111325

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	110		70 - 130

Lab Sample ID: LCSD 880-111325/3-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111325

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	872.3		mg/Kg		87	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	833.8		mg/Kg		83	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 880-58802-32 MS
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS84
Prep Type: Total/NA
Prep Batch: 111325

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	806.7		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	798.2		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	73		70 - 130

Lab Sample ID: 880-58802-32 MSD
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS84
Prep Type: Total/NA
Prep Batch: 111325

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	817.7		mg/Kg		80	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	1000	855.5		mg/Kg		85	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	74		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-111328/1-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111328

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 06:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 06:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/02/25 11:00	06/03/25 06:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*06/02/25 11:00*	*06/03/25 06:20*	*1*
o-Terphenyl	*78*		*70 - 130*	*06/02/25 11:00*	*06/03/25 06:20*	*1*

Lab Sample ID: LCS 880-111328/2-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111328

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	846.3		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1066		mg/Kg		107	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: LCSD 880-111328/3-A
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111328

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	893.7		mg/Kg		89	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	1004		mg/Kg		100	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: 880-58802-52 MS
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS55
Prep Type: Total/NA
Prep Batch: 111328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	814.2		mg/Kg		82	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.7	U	999	813.1		mg/Kg		80	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-58802-52 MS
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS55
Prep Type: Total/NA
Prep Batch: 111328

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 880-58802-52 MSD
Matrix: Solid
Analysis Batch: 111418

Client Sample ID: CS55
Prep Type: Total/NA
Prep Batch: 111328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	999	797.4		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.7	U	999	879.1		mg/Kg		86	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	67	S1-	70 - 130
o-Terphenyl	74		70 - 130

Lab Sample ID: MB 880-111384/1-A
Matrix: Solid
Analysis Batch: 111420

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111384

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 00:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/03/25 10:55	06/04/25 00:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130	06/03/25 10:55	06/04/25 00:12	1
o-Terphenyl	77		70 - 130	06/03/25 10:55	06/04/25 00:12	1

Lab Sample ID: LCS 880-111384/2-A
Matrix: Solid
Analysis Batch: 111420

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111384

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	958.5		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	127		70 - 130
o-Terphenyl	112		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-111384/3-A
Matrix: Solid
Analysis Batch: 111420

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111384

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	943.9		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1061		mg/Kg		106	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: MB 880-111501/1-A
Matrix: Solid
Analysis Batch: 111564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111501

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 04:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 04:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/04/25 12:24	06/05/25 04:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*06/04/25 12:24*	*06/05/25 04:09*	*1*
o-Terphenyl	*122*		*70 - 130*	*06/04/25 12:24*	*06/05/25 04:09*	*1*

Lab Sample ID: LCS 880-111501/2-A
Matrix: Solid
Analysis Batch: 111564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111501

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	811.2		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	875.0		mg/Kg		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Lab Sample ID: LCSD 880-111501/3-A
Matrix: Solid
Analysis Batch: 111564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111501

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	831.5		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	906.0		mg/Kg		91	70 - 130	3	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-111501/3-A
Matrix: Solid
Analysis Batch: 111564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111501

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	92		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111290/1-A
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/02/25 11:57	1

Lab Sample ID: LCS 880-111290/2-A
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.9		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-111290/3-A
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.9		mg/Kg		97	90 - 110	0	20

Lab Sample ID: 880-58802-1 MS
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: CS10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	343	F1	251	624.8	F1	mg/Kg		112	90 - 110		

Lab Sample ID: 880-58802-1 MSD
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: CS10
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	343	F1	251	626.4	F1	mg/Kg		113	90 - 110	0	20

Lab Sample ID: 880-58802-11 MS
Matrix: Solid
Analysis Batch: 111336

Client Sample ID: CS44
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	80.2	F1	251	424.1	F1	mg/Kg		137	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-58802-11 MSD — **Client Sample ID: CS44**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 111336

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.2	F1	251	424.2	F1	mg/Kg		137	90 - 110	0	20

Lab Sample ID: MB 880-111291/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 111337

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/02/25 15:57	1

Lab Sample ID: LCS 880-111291/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 111337

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	264.7		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-111291/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 111337

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	263.8		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-58802-19 MS — **Client Sample ID: CS52**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 111337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	273		248	540.9		mg/Kg		108	90 - 110		

Lab Sample ID: 880-58802-19 MSD — **Client Sample ID: CS52**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 111337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	273		248	538.8		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-58802-29 MS — **Client Sample ID: CS81**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 111337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	130	F1	249	441.0	F1	mg/Kg		125	90 - 110		

Lab Sample ID: 880-58802-29 MSD — **Client Sample ID: CS81**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 111337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	130	F1	249	442.0	F1	mg/Kg		125	90 - 110	0	20

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111292/1-A
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/02/25 16:05	1

Lab Sample ID: LCS 880-111292/2-A
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-111292/3-A
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.3		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-58802-39 MS
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: CS167
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	71.2	F1	251	386.5	F1	mg/Kg		126	90 - 110		

Lab Sample ID: 880-58802-39 MSD
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: CS167
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	71.2	F1	251	389.7	F1	mg/Kg		127	90 - 110	1	20

Lab Sample ID: 880-58802-49 MS
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: CS40
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	80.2	F1	251	409.9	F1	mg/Kg		132	90 - 110		

Lab Sample ID: 880-58802-49 MSD
Matrix: Solid
Analysis Batch: 111339

Client Sample ID: CS40
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	80.2	F1	251	409.3	F1	mg/Kg		131	90 - 110	0	20

Lab Sample ID: MB 880-111294/1-A
Matrix: Solid
Analysis Batch: 111383

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/03/25 11:24	1

QC Sample Results

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-111294/2-A
Matrix: Solid
Analysis Batch: 111383

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.8		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-111294/3-A
Matrix: Solid
Analysis Batch: 111383

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.8		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-111711/1-A
Matrix: Solid
Analysis Batch: 111721

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/07/25 12:54	1

Lab Sample ID: LCS 880-111711/2-A
Matrix: Solid
Analysis Batch: 111721

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.3		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-111711/3-A
Matrix: Solid
Analysis Batch: 111721

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.3		mg/Kg		98	90 - 110	0	20

Lab Sample ID: MB 880-111800/1-A
Matrix: Solid
Analysis Batch: 111803

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/09/25 16:55	1

Lab Sample ID: LCS 880-111800/2-A
Matrix: Solid
Analysis Batch: 111803

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.2		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-111800/3-A
Matrix: Solid
Analysis Batch: 111803

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	246.7		mg/Kg		99	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA

Analysis Batch: 111281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	8021B	111293
880-58802-2	CS11	Total/NA	Solid	8021B	111293
880-58802-3	CS13	Total/NA	Solid	8021B	111293
880-58802-4	CS16	Total/NA	Solid	8021B	111293
880-58802-5	CS19	Total/NA	Solid	8021B	111293
880-58802-6	CS21	Total/NA	Solid	8021B	111293
880-58802-7	CS22	Total/NA	Solid	8021B	111293
880-58802-8	CS23	Total/NA	Solid	8021B	111293
880-58802-9	CS24	Total/NA	Solid	8021B	111293
880-58802-10	CS25	Total/NA	Solid	8021B	111293
880-58802-11	CS44	Total/NA	Solid	8021B	111293
880-58802-12	CS45	Total/NA	Solid	8021B	111293
880-58802-13	CS46	Total/NA	Solid	8021B	111293
880-58802-14	CS47	Total/NA	Solid	8021B	111293
880-58802-15	CS48	Total/NA	Solid	8021B	111293
880-58802-16	CS49	Total/NA	Solid	8021B	111293
880-58802-17	CS50	Total/NA	Solid	8021B	111293
880-58802-18	CS51	Total/NA	Solid	8021B	111293
880-58802-19	CS52	Total/NA	Solid	8021B	111293
880-58802-20	CS53	Total/NA	Solid	8021B	111293
MB 880-111293/5-A	Method Blank	Total/NA	Solid	8021B	111293
LCS 880-111293/1-A	Lab Control Sample	Total/NA	Solid	8021B	111293
LCSD 880-111293/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111293
880-58802-1 MS	CS10	Total/NA	Solid	8021B	111293
880-58802-1 MSD	CS10	Total/NA	Solid	8021B	111293

Analysis Batch: 111288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-21	CS70	Total/NA	Solid	8021B	111295
880-58802-22	CS71	Total/NA	Solid	8021B	111295
880-58802-23	CS72	Total/NA	Solid	8021B	111295
880-58802-24	CS73	Total/NA	Solid	8021B	111295
880-58802-25	CS74	Total/NA	Solid	8021B	111295
880-58802-26	CS75	Total/NA	Solid	8021B	111295
880-58802-27	CS76	Total/NA	Solid	8021B	111295
880-58802-28	CS77	Total/NA	Solid	8021B	111295
880-58802-29	CS81	Total/NA	Solid	8021B	111295
880-58802-30	CS82	Total/NA	Solid	8021B	111295
880-58802-31	CS83	Total/NA	Solid	8021B	111295
880-58802-32	CS84	Total/NA	Solid	8021B	111295
880-58802-33	CS139	Total/NA	Solid	8021B	111295
880-58802-34	CS140	Total/NA	Solid	8021B	111295
880-58802-35	CS145	Total/NA	Solid	8021B	111295
880-58802-36	CS146	Total/NA	Solid	8021B	111295
880-58802-37	CS150	Total/NA	Solid	8021B	111295
880-58802-38	CS151	Total/NA	Solid	8021B	111295
880-58802-39	CS167	Total/NA	Solid	8021B	111295
880-58802-40	CS168	Total/NA	Solid	8021B	111295
MB 880-111295/5-A	Method Blank	Total/NA	Solid	8021B	111295
LCS 880-111295/1-A	Lab Control Sample	Total/NA	Solid	8021B	111295
LCSD 880-111295/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111295

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 111288 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-21 MS	CS70	Total/NA	Solid	8021B	111295
880-58802-21 MSD	CS70	Total/NA	Solid	8021B	111295

Prep Batch: 111293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	5035	
880-58802-2	CS11	Total/NA	Solid	5035	
880-58802-3	CS13	Total/NA	Solid	5035	
880-58802-4	CS16	Total/NA	Solid	5035	
880-58802-5	CS19	Total/NA	Solid	5035	
880-58802-6	CS21	Total/NA	Solid	5035	
880-58802-7	CS22	Total/NA	Solid	5035	
880-58802-8	CS23	Total/NA	Solid	5035	
880-58802-9	CS24	Total/NA	Solid	5035	
880-58802-10	CS25	Total/NA	Solid	5035	
880-58802-11	CS44	Total/NA	Solid	5035	
880-58802-12	CS45	Total/NA	Solid	5035	
880-58802-13	CS46	Total/NA	Solid	5035	
880-58802-14	CS47	Total/NA	Solid	5035	
880-58802-15	CS48	Total/NA	Solid	5035	
880-58802-16	CS49	Total/NA	Solid	5035	
880-58802-17	CS50	Total/NA	Solid	5035	
880-58802-18	CS51	Total/NA	Solid	5035	
880-58802-19	CS52	Total/NA	Solid	5035	
880-58802-20	CS53	Total/NA	Solid	5035	
MB 880-111293/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111293/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111293/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58802-1 MS	CS10	Total/NA	Solid	5035	
880-58802-1 MSD	CS10	Total/NA	Solid	5035	

Prep Batch: 111295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-21	CS70	Total/NA	Solid	5035	
880-58802-22	CS71	Total/NA	Solid	5035	
880-58802-23	CS72	Total/NA	Solid	5035	
880-58802-24	CS73	Total/NA	Solid	5035	
880-58802-25	CS74	Total/NA	Solid	5035	
880-58802-26	CS75	Total/NA	Solid	5035	
880-58802-27	CS76	Total/NA	Solid	5035	
880-58802-28	CS77	Total/NA	Solid	5035	
880-58802-29	CS81	Total/NA	Solid	5035	
880-58802-30	CS82	Total/NA	Solid	5035	
880-58802-31	CS83	Total/NA	Solid	5035	
880-58802-32	CS84	Total/NA	Solid	5035	
880-58802-33	CS139	Total/NA	Solid	5035	
880-58802-34	CS140	Total/NA	Solid	5035	
880-58802-35	CS145	Total/NA	Solid	5035	
880-58802-36	CS146	Total/NA	Solid	5035	
880-58802-37	CS150	Total/NA	Solid	5035	
880-58802-38	CS151	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA (Continued)

Prep Batch: 111295 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-39	CS167	Total/NA	Solid	5035	
880-58802-40	CS168	Total/NA	Solid	5035	
MB 880-111295/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111295/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111295/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58802-21 MS	CS70	Total/NA	Solid	5035	
880-58802-21 MSD	CS70	Total/NA	Solid	5035	

Prep Batch: 111296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-41	CS26	Total/NA	Solid	5035	
880-58802-42	CS27	Total/NA	Solid	5035	
880-58802-43	CS29	Total/NA	Solid	5035	
880-58802-44	CS31	Total/NA	Solid	5035	
880-58802-45	CS32	Total/NA	Solid	5035	
880-58802-46	CS35	Total/NA	Solid	5035	
880-58802-47	CS36	Total/NA	Solid	5035	
880-58802-48	CS39	Total/NA	Solid	5035	
880-58802-49	CS40	Total/NA	Solid	5035	
880-58802-50	CS43	Total/NA	Solid	5035	
880-58802-51	CS54	Total/NA	Solid	5035	
880-58802-52	CS55	Total/NA	Solid	5035	
880-58802-53	CS56	Total/NA	Solid	5035	
880-58802-54	CS57	Total/NA	Solid	5035	
880-58802-55	CS58	Total/NA	Solid	5035	
880-58802-56	CS59	Total/NA	Solid	5035	
880-58802-57	CS65	Total/NA	Solid	5035	
880-58802-58	CS67	Total/NA	Solid	5035	
880-58802-59	CS68	Total/NA	Solid	5035	
880-58802-60	CS69	Total/NA	Solid	5035	
MB 880-111296/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111296/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111296/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58802-41 MS	CS26	Total/NA	Solid	5035	
880-58802-41 MSD	CS26	Total/NA	Solid	5035	

Prep Batch: 111298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-61	CS170	Total/NA	Solid	5035	
880-58802-62	CS178	Total/NA	Solid	5035	
880-58802-63	SW06	Total/NA	Solid	5035	
880-58802-64	SW08	Total/NA	Solid	5035	
880-58802-65	SW10	Total/NA	Solid	5035	
880-58802-66	SW11	Total/NA	Solid	5035	
880-58802-67	SW13	Total/NA	Solid	5035	
MB 880-111298/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111298/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111298/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58802-61 MS	CS170	Total/NA	Solid	5035	
880-58802-61 MSD	CS170	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA

Analysis Batch: 111341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-41	CS26	Total/NA	Solid	8021B	111296
880-58802-42	CS27	Total/NA	Solid	8021B	111296
880-58802-43	CS29	Total/NA	Solid	8021B	111296
880-58802-44	CS31	Total/NA	Solid	8021B	111296
880-58802-45	CS32	Total/NA	Solid	8021B	111296
880-58802-46	CS35	Total/NA	Solid	8021B	111296
880-58802-47	CS36	Total/NA	Solid	8021B	111296
880-58802-48	CS39	Total/NA	Solid	8021B	111296
880-58802-49	CS40	Total/NA	Solid	8021B	111296
880-58802-50	CS43	Total/NA	Solid	8021B	111296
880-58802-51	CS54	Total/NA	Solid	8021B	111296
880-58802-52	CS55	Total/NA	Solid	8021B	111296
880-58802-53	CS56	Total/NA	Solid	8021B	111296
880-58802-54	CS57	Total/NA	Solid	8021B	111296
880-58802-55	CS58	Total/NA	Solid	8021B	111296
880-58802-56	CS59	Total/NA	Solid	8021B	111296
880-58802-57	CS65	Total/NA	Solid	8021B	111296
880-58802-58	CS67	Total/NA	Solid	8021B	111296
880-58802-59	CS68	Total/NA	Solid	8021B	111296
880-58802-60	CS69	Total/NA	Solid	8021B	111296
MB 880-111296/5-A	Method Blank	Total/NA	Solid	8021B	111296
LCS 880-111296/1-A	Lab Control Sample	Total/NA	Solid	8021B	111296
LCSD 880-111296/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111296
880-58802-41 MS	CS26	Total/NA	Solid	8021B	111296
880-58802-41 MSD	CS26	Total/NA	Solid	8021B	111296

Analysis Batch: 111351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	Total BTEX	
880-58802-2	CS11	Total/NA	Solid	Total BTEX	
880-58802-3	CS13	Total/NA	Solid	Total BTEX	
880-58802-4	CS16	Total/NA	Solid	Total BTEX	
880-58802-5	CS19	Total/NA	Solid	Total BTEX	
880-58802-6	CS21	Total/NA	Solid	Total BTEX	
880-58802-7	CS22	Total/NA	Solid	Total BTEX	
880-58802-8	CS23	Total/NA	Solid	Total BTEX	
880-58802-9	CS24	Total/NA	Solid	Total BTEX	
880-58802-10	CS25	Total/NA	Solid	Total BTEX	
880-58802-11	CS44	Total/NA	Solid	Total BTEX	
880-58802-12	CS45	Total/NA	Solid	Total BTEX	
880-58802-13	CS46	Total/NA	Solid	Total BTEX	
880-58802-14	CS47	Total/NA	Solid	Total BTEX	
880-58802-15	CS48	Total/NA	Solid	Total BTEX	
880-58802-16	CS49	Total/NA	Solid	Total BTEX	
880-58802-17	CS50	Total/NA	Solid	Total BTEX	
880-58802-18	CS51	Total/NA	Solid	Total BTEX	
880-58802-19	CS52	Total/NA	Solid	Total BTEX	
880-58802-20	CS53	Total/NA	Solid	Total BTEX	
880-58802-21	CS70	Total/NA	Solid	Total BTEX	
880-58802-22	CS71	Total/NA	Solid	Total BTEX	
880-58802-23	CS72	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 111351 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-24	CS73	Total/NA	Solid	Total BTEX	
880-58802-25	CS74	Total/NA	Solid	Total BTEX	
880-58802-26	CS75	Total/NA	Solid	Total BTEX	
880-58802-27	CS76	Total/NA	Solid	Total BTEX	
880-58802-28	CS77	Total/NA	Solid	Total BTEX	
880-58802-29	CS81	Total/NA	Solid	Total BTEX	
880-58802-30	CS82	Total/NA	Solid	Total BTEX	
880-58802-31	CS83	Total/NA	Solid	Total BTEX	
880-58802-32	CS84	Total/NA	Solid	Total BTEX	
880-58802-33	CS139	Total/NA	Solid	Total BTEX	
880-58802-34	CS140	Total/NA	Solid	Total BTEX	
880-58802-35	CS145	Total/NA	Solid	Total BTEX	
880-58802-36	CS146	Total/NA	Solid	Total BTEX	
880-58802-37	CS150	Total/NA	Solid	Total BTEX	
880-58802-38	CS151	Total/NA	Solid	Total BTEX	
880-58802-39	CS167	Total/NA	Solid	Total BTEX	
880-58802-40	CS168	Total/NA	Solid	Total BTEX	
880-58802-41	CS26	Total/NA	Solid	Total BTEX	
880-58802-42	CS27	Total/NA	Solid	Total BTEX	
880-58802-43	CS29	Total/NA	Solid	Total BTEX	
880-58802-44	CS31	Total/NA	Solid	Total BTEX	
880-58802-45	CS32	Total/NA	Solid	Total BTEX	
880-58802-46	CS35	Total/NA	Solid	Total BTEX	
880-58802-47	CS36	Total/NA	Solid	Total BTEX	
880-58802-48	CS39	Total/NA	Solid	Total BTEX	
880-58802-49	CS40	Total/NA	Solid	Total BTEX	
880-58802-50	CS43	Total/NA	Solid	Total BTEX	
880-58802-51	CS54	Total/NA	Solid	Total BTEX	
880-58802-52	CS55	Total/NA	Solid	Total BTEX	
880-58802-53	CS56	Total/NA	Solid	Total BTEX	
880-58802-54	CS57	Total/NA	Solid	Total BTEX	
880-58802-55	CS58	Total/NA	Solid	Total BTEX	
880-58802-56	CS59	Total/NA	Solid	Total BTEX	
880-58802-57	CS65	Total/NA	Solid	Total BTEX	
880-58802-58	CS67	Total/NA	Solid	Total BTEX	
880-58802-59	CS68	Total/NA	Solid	Total BTEX	
880-58802-60	CS69	Total/NA	Solid	Total BTEX	
880-58802-61	CS170	Total/NA	Solid	Total BTEX	
880-58802-62	CS178	Total/NA	Solid	Total BTEX	
880-58802-63	SW06	Total/NA	Solid	Total BTEX	
880-58802-64	SW08	Total/NA	Solid	Total BTEX	
880-58802-65	SW10	Total/NA	Solid	Total BTEX	
880-58802-66	SW11	Total/NA	Solid	Total BTEX	
880-58802-67	SW13	Total/NA	Solid	Total BTEX	

Analysis Batch: 111355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-61	CS170	Total/NA	Solid	8021B	111298
880-58802-62	CS178	Total/NA	Solid	8021B	111298
880-58802-63	SW06	Total/NA	Solid	8021B	111298
880-58802-64	SW08	Total/NA	Solid	8021B	111298

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC VOA (Continued)

Analysis Batch: 111355 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-65	SW10	Total/NA	Solid	8021B	111298
880-58802-66	SW11	Total/NA	Solid	8021B	111298
880-58802-67	SW13	Total/NA	Solid	8021B	111298
MB 880-111298/5-A	Method Blank	Total/NA	Solid	8021B	111298
LCS 880-111298/1-A	Lab Control Sample	Total/NA	Solid	8021B	111298
LCSD 880-111298/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111298
880-58802-61 MS	CS170	Total/NA	Solid	8021B	111298
880-58802-61 MSD	CS170	Total/NA	Solid	8021B	111298

GC Semi VOA

Prep Batch: 111283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	8015NM Prep	
880-58802-2	CS11	Total/NA	Solid	8015NM Prep	
880-58802-3	CS13	Total/NA	Solid	8015NM Prep	
880-58802-4	CS16	Total/NA	Solid	8015NM Prep	
880-58802-5	CS19	Total/NA	Solid	8015NM Prep	
880-58802-6	CS21	Total/NA	Solid	8015NM Prep	
880-58802-7	CS22	Total/NA	Solid	8015NM Prep	
880-58802-8	CS23	Total/NA	Solid	8015NM Prep	
880-58802-9	CS24	Total/NA	Solid	8015NM Prep	
880-58802-10	CS25	Total/NA	Solid	8015NM Prep	
880-58802-11	CS44	Total/NA	Solid	8015NM Prep	
MB 880-111283/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111283/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 111324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-13	CS46	Total/NA	Solid	8015NM Prep	
880-58802-14	CS47	Total/NA	Solid	8015NM Prep	
880-58802-15	CS48	Total/NA	Solid	8015NM Prep	
880-58802-16	CS49	Total/NA	Solid	8015NM Prep	
880-58802-17	CS50	Total/NA	Solid	8015NM Prep	
880-58802-18	CS51	Total/NA	Solid	8015NM Prep	
880-58802-19	CS52	Total/NA	Solid	8015NM Prep	
880-58802-20	CS53	Total/NA	Solid	8015NM Prep	
880-58802-21	CS70	Total/NA	Solid	8015NM Prep	
880-58802-23	CS72	Total/NA	Solid	8015NM Prep	
880-58802-24	CS73	Total/NA	Solid	8015NM Prep	
880-58802-25	CS74	Total/NA	Solid	8015NM Prep	
880-58802-26	CS75	Total/NA	Solid	8015NM Prep	
880-58802-29	CS81	Total/NA	Solid	8015NM Prep	
880-58802-30	CS82	Total/NA	Solid	8015NM Prep	
880-58802-31	CS83	Total/NA	Solid	8015NM Prep	
MB 880-111324/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111324/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58802-12 MS	CS45	Total/NA	Solid	8015NM Prep	
880-58802-12 MSD	CS45	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA

Prep Batch: 111325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-32	CS84	Total/NA	Solid	8015NM Prep	
880-58802-33	CS139	Total/NA	Solid	8015NM Prep	
880-58802-34	CS140	Total/NA	Solid	8015NM Prep	
880-58802-35	CS145	Total/NA	Solid	8015NM Prep	
880-58802-36	CS146	Total/NA	Solid	8015NM Prep	
880-58802-37	CS150	Total/NA	Solid	8015NM Prep	
880-58802-38	CS151	Total/NA	Solid	8015NM Prep	
880-58802-39	CS167	Total/NA	Solid	8015NM Prep	
880-58802-40	CS168	Total/NA	Solid	8015NM Prep	
880-58802-41	CS26	Total/NA	Solid	8015NM Prep	
880-58802-42	CS27	Total/NA	Solid	8015NM Prep	
880-58802-43	CS29	Total/NA	Solid	8015NM Prep	
880-58802-44	CS31	Total/NA	Solid	8015NM Prep	
880-58802-45	CS32	Total/NA	Solid	8015NM Prep	
880-58802-46	CS35	Total/NA	Solid	8015NM Prep	
880-58802-47	CS36	Total/NA	Solid	8015NM Prep	
880-58802-48	CS39	Total/NA	Solid	8015NM Prep	
880-58802-49	CS40	Total/NA	Solid	8015NM Prep	
880-58802-50	CS43	Total/NA	Solid	8015NM Prep	
880-58802-51	CS54	Total/NA	Solid	8015NM Prep	
MB 880-111325/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111325/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58802-32 MS	CS84	Total/NA	Solid	8015NM Prep	
880-58802-32 MSD	CS84	Total/NA	Solid	8015NM Prep	

Prep Batch: 111328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-52	CS55	Total/NA	Solid	8015NM Prep	
880-58802-53	CS56	Total/NA	Solid	8015NM Prep	
880-58802-54	CS57	Total/NA	Solid	8015NM Prep	
880-58802-55	CS58	Total/NA	Solid	8015NM Prep	
880-58802-56	CS59	Total/NA	Solid	8015NM Prep	
880-58802-57	CS65	Total/NA	Solid	8015NM Prep	
880-58802-58	CS67	Total/NA	Solid	8015NM Prep	
880-58802-59	CS68	Total/NA	Solid	8015NM Prep	
880-58802-60	CS69	Total/NA	Solid	8015NM Prep	
880-58802-61	CS170	Total/NA	Solid	8015NM Prep	
880-58802-62	CS178	Total/NA	Solid	8015NM Prep	
880-58802-63	SW06	Total/NA	Solid	8015NM Prep	
880-58802-65	SW10	Total/NA	Solid	8015NM Prep	
880-58802-66	SW11	Total/NA	Solid	8015NM Prep	
880-58802-67	SW13	Total/NA	Solid	8015NM Prep	
MB 880-111328/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111328/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111328/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58802-52 MS	CS55	Total/NA	Solid	8015NM Prep	
880-58802-52 MSD	CS55	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 111332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	8015B NM	111283
880-58802-2	CS11	Total/NA	Solid	8015B NM	111283
880-58802-3	CS13	Total/NA	Solid	8015B NM	111283
880-58802-4	CS16	Total/NA	Solid	8015B NM	111283
880-58802-5	CS19	Total/NA	Solid	8015B NM	111283
880-58802-6	CS21	Total/NA	Solid	8015B NM	111283
880-58802-7	CS22	Total/NA	Solid	8015B NM	111283
880-58802-8	CS23	Total/NA	Solid	8015B NM	111283
880-58802-9	CS24	Total/NA	Solid	8015B NM	111283
880-58802-10	CS25	Total/NA	Solid	8015B NM	111283
880-58802-11	CS44	Total/NA	Solid	8015B NM	111283
MB 880-111283/1-A	Method Blank	Total/NA	Solid	8015B NM	111283
LCS 880-111283/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111283
LCSD 880-111283/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111283

Analysis Batch: 111334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-13	CS46	Total/NA	Solid	8015B NM	111324
880-58802-14	CS47	Total/NA	Solid	8015B NM	111324
880-58802-15	CS48	Total/NA	Solid	8015B NM	111324
880-58802-16	CS49	Total/NA	Solid	8015B NM	111324
880-58802-17	CS50	Total/NA	Solid	8015B NM	111324
880-58802-18	CS51	Total/NA	Solid	8015B NM	111324
880-58802-19	CS52	Total/NA	Solid	8015B NM	111324
880-58802-20	CS53	Total/NA	Solid	8015B NM	111324
880-58802-21	CS70	Total/NA	Solid	8015B NM	111324
880-58802-23	CS72	Total/NA	Solid	8015B NM	111324
880-58802-24	CS73	Total/NA	Solid	8015B NM	111324
880-58802-25	CS74	Total/NA	Solid	8015B NM	111324
880-58802-26	CS75	Total/NA	Solid	8015B NM	111324
880-58802-29	CS81	Total/NA	Solid	8015B NM	111324
880-58802-30	CS82	Total/NA	Solid	8015B NM	111324
880-58802-31	CS83	Total/NA	Solid	8015B NM	111324
MB 880-111324/1-A	Method Blank	Total/NA	Solid	8015B NM	111324
LCS 880-111324/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111324
LCSD 880-111324/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111324
880-58802-12 MS	CS45	Total/NA	Solid	8015B NM	111324
880-58802-12 MSD	CS45	Total/NA	Solid	8015B NM	111324

Prep Batch: 111384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-12	CS45	Total/NA	Solid	8015NM Prep	
880-58802-22	CS71	Total/NA	Solid	8015NM Prep	
880-58802-27	CS76	Total/NA	Solid	8015NM Prep	
880-58802-28	CS77	Total/NA	Solid	8015NM Prep	
MB 880-111384/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111384/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111384/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA

Analysis Batch: 111417

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Total/NA	Solid	8015 NM	
880-58802-2	CS11	Total/NA	Solid	8015 NM	
880-58802-3	CS13	Total/NA	Solid	8015 NM	
880-58802-4	CS16	Total/NA	Solid	8015 NM	
880-58802-5	CS19	Total/NA	Solid	8015 NM	
880-58802-6	CS21	Total/NA	Solid	8015 NM	
880-58802-7	CS22	Total/NA	Solid	8015 NM	
880-58802-8	CS23	Total/NA	Solid	8015 NM	
880-58802-9	CS24	Total/NA	Solid	8015 NM	
880-58802-10	CS25	Total/NA	Solid	8015 NM	
880-58802-11	CS44	Total/NA	Solid	8015 NM	
880-58802-12	CS45	Total/NA	Solid	8015 NM	
880-58802-13	CS46	Total/NA	Solid	8015 NM	
880-58802-14	CS47	Total/NA	Solid	8015 NM	
880-58802-15	CS48	Total/NA	Solid	8015 NM	
880-58802-16	CS49	Total/NA	Solid	8015 NM	
880-58802-17	CS50	Total/NA	Solid	8015 NM	
880-58802-18	CS51	Total/NA	Solid	8015 NM	
880-58802-19	CS52	Total/NA	Solid	8015 NM	
880-58802-20	CS53	Total/NA	Solid	8015 NM	
880-58802-21	CS70	Total/NA	Solid	8015 NM	
880-58802-22	CS71	Total/NA	Solid	8015 NM	
880-58802-23	CS72	Total/NA	Solid	8015 NM	
880-58802-24	CS73	Total/NA	Solid	8015 NM	
880-58802-25	CS74	Total/NA	Solid	8015 NM	
880-58802-26	CS75	Total/NA	Solid	8015 NM	
880-58802-27	CS76	Total/NA	Solid	8015 NM	
880-58802-28	CS77	Total/NA	Solid	8015 NM	
880-58802-29	CS81	Total/NA	Solid	8015 NM	
880-58802-30	CS82	Total/NA	Solid	8015 NM	
880-58802-31	CS83	Total/NA	Solid	8015 NM	
880-58802-32	CS84	Total/NA	Solid	8015 NM	
880-58802-33	CS139	Total/NA	Solid	8015 NM	
880-58802-34	CS140	Total/NA	Solid	8015 NM	
880-58802-35	CS145	Total/NA	Solid	8015 NM	
880-58802-36	CS146	Total/NA	Solid	8015 NM	
880-58802-37	CS150	Total/NA	Solid	8015 NM	
880-58802-38	CS151	Total/NA	Solid	8015 NM	
880-58802-39	CS167	Total/NA	Solid	8015 NM	
880-58802-40	CS168	Total/NA	Solid	8015 NM	
880-58802-41	CS26	Total/NA	Solid	8015 NM	
880-58802-42	CS27	Total/NA	Solid	8015 NM	
880-58802-43	CS29	Total/NA	Solid	8015 NM	
880-58802-44	CS31	Total/NA	Solid	8015 NM	
880-58802-45	CS32	Total/NA	Solid	8015 NM	
880-58802-46	CS35	Total/NA	Solid	8015 NM	
880-58802-47	CS36	Total/NA	Solid	8015 NM	
880-58802-48	CS39	Total/NA	Solid	8015 NM	
880-58802-49	CS40	Total/NA	Solid	8015 NM	
880-58802-50	CS43	Total/NA	Solid	8015 NM	
880-58802-51	CS54	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 111417 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-52	CS55	Total/NA	Solid	8015 NM	
880-58802-53	CS56	Total/NA	Solid	8015 NM	
880-58802-54	CS57	Total/NA	Solid	8015 NM	
880-58802-55	CS58	Total/NA	Solid	8015 NM	
880-58802-56	CS59	Total/NA	Solid	8015 NM	
880-58802-57	CS65	Total/NA	Solid	8015 NM	
880-58802-58	CS67	Total/NA	Solid	8015 NM	
880-58802-59	CS68	Total/NA	Solid	8015 NM	
880-58802-60	CS69	Total/NA	Solid	8015 NM	
880-58802-61	CS170	Total/NA	Solid	8015 NM	
880-58802-62	CS178	Total/NA	Solid	8015 NM	
880-58802-63	SW06	Total/NA	Solid	8015 NM	
880-58802-64	SW08	Total/NA	Solid	8015 NM	
880-58802-65	SW10	Total/NA	Solid	8015 NM	
880-58802-66	SW11	Total/NA	Solid	8015 NM	
880-58802-67	SW13	Total/NA	Solid	8015 NM	

Analysis Batch: 111418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-32	CS84	Total/NA	Solid	8015B NM	111325
880-58802-33	CS139	Total/NA	Solid	8015B NM	111325
880-58802-34	CS140	Total/NA	Solid	8015B NM	111325
880-58802-35	CS145	Total/NA	Solid	8015B NM	111325
880-58802-36	CS146	Total/NA	Solid	8015B NM	111325
880-58802-37	CS150	Total/NA	Solid	8015B NM	111325
880-58802-38	CS151	Total/NA	Solid	8015B NM	111325
880-58802-39	CS167	Total/NA	Solid	8015B NM	111325
880-58802-40	CS168	Total/NA	Solid	8015B NM	111325
880-58802-41	CS26	Total/NA	Solid	8015B NM	111325
880-58802-42	CS27	Total/NA	Solid	8015B NM	111325
880-58802-43	CS29	Total/NA	Solid	8015B NM	111325
880-58802-44	CS31	Total/NA	Solid	8015B NM	111325
880-58802-45	CS32	Total/NA	Solid	8015B NM	111325
880-58802-46	CS35	Total/NA	Solid	8015B NM	111325
880-58802-47	CS36	Total/NA	Solid	8015B NM	111325
880-58802-48	CS39	Total/NA	Solid	8015B NM	111325
880-58802-49	CS40	Total/NA	Solid	8015B NM	111325
880-58802-50	CS43	Total/NA	Solid	8015B NM	111325
880-58802-51	CS54	Total/NA	Solid	8015B NM	111325
880-58802-52	CS55	Total/NA	Solid	8015B NM	111328
880-58802-53	CS56	Total/NA	Solid	8015B NM	111328
880-58802-54	CS57	Total/NA	Solid	8015B NM	111328
880-58802-55	CS58	Total/NA	Solid	8015B NM	111328
880-58802-56	CS59	Total/NA	Solid	8015B NM	111328
880-58802-57	CS65	Total/NA	Solid	8015B NM	111328
880-58802-58	CS67	Total/NA	Solid	8015B NM	111328
880-58802-59	CS68	Total/NA	Solid	8015B NM	111328
880-58802-60	CS69	Total/NA	Solid	8015B NM	111328
880-58802-61	CS170	Total/NA	Solid	8015B NM	111328
880-58802-62	CS178	Total/NA	Solid	8015B NM	111328
880-58802-63	SW06	Total/NA	Solid	8015B NM	111328

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 111418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-65	SW10	Total/NA	Solid	8015B NM	111328
880-58802-66	SW11	Total/NA	Solid	8015B NM	111328
880-58802-67	SW13	Total/NA	Solid	8015B NM	111328
MB 880-111325/1-A	Method Blank	Total/NA	Solid	8015B NM	111325
MB 880-111328/1-A	Method Blank	Total/NA	Solid	8015B NM	111328
LCS 880-111325/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111325
LCS 880-111328/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111328
LCSD 880-111325/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111325
LCSD 880-111328/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111328
880-58802-32 MS	CS84	Total/NA	Solid	8015B NM	111325
880-58802-32 MSD	CS84	Total/NA	Solid	8015B NM	111325
880-58802-52 MS	CS55	Total/NA	Solid	8015B NM	111328
880-58802-52 MSD	CS55	Total/NA	Solid	8015B NM	111328

Analysis Batch: 111420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-12	CS45	Total/NA	Solid	8015B NM	111384
880-58802-22	CS71	Total/NA	Solid	8015B NM	111384
880-58802-27	CS76	Total/NA	Solid	8015B NM	111384
880-58802-28	CS77	Total/NA	Solid	8015B NM	111384
MB 880-111384/1-A	Method Blank	Total/NA	Solid	8015B NM	111384
LCS 880-111384/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111384
LCSD 880-111384/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111384

Prep Batch: 111501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-64	SW08	Total/NA	Solid	8015NM Prep	
MB 880-111501/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111501/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-64	SW08	Total/NA	Solid	8015B NM	111501
MB 880-111501/1-A	Method Blank	Total/NA	Solid	8015B NM	111501
LCS 880-111501/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111501
LCSD 880-111501/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111501

HPLC/IC

Leach Batch: 111290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Soluble	Solid	DI Leach	
880-58802-2	CS11	Soluble	Solid	DI Leach	
880-58802-3	CS13	Soluble	Solid	DI Leach	
880-58802-5	CS19	Soluble	Solid	DI Leach	
880-58802-6	CS21	Soluble	Solid	DI Leach	
880-58802-7	CS22	Soluble	Solid	DI Leach	
880-58802-8	CS23	Soluble	Solid	DI Leach	
880-58802-9	CS24	Soluble	Solid	DI Leach	
880-58802-10	CS25	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 111290 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-11	CS44	Soluble	Solid	DI Leach	
880-58802-12	CS45	Soluble	Solid	DI Leach	
880-58802-13	CS46	Soluble	Solid	DI Leach	
880-58802-14	CS47	Soluble	Solid	DI Leach	
880-58802-15	CS48	Soluble	Solid	DI Leach	
880-58802-16	CS49	Soluble	Solid	DI Leach	
880-58802-17	CS50	Soluble	Solid	DI Leach	
880-58802-18	CS51	Soluble	Solid	DI Leach	
MB 880-111290/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111290/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111290/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58802-1 MS	CS10	Soluble	Solid	DI Leach	
880-58802-1 MSD	CS10	Soluble	Solid	DI Leach	
880-58802-11 MS	CS44	Soluble	Solid	DI Leach	
880-58802-11 MSD	CS44	Soluble	Solid	DI Leach	

Leach Batch: 111291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-19	CS52	Soluble	Solid	DI Leach	
880-58802-20	CS53	Soluble	Solid	DI Leach	
880-58802-21	CS70	Soluble	Solid	DI Leach	
880-58802-22	CS71	Soluble	Solid	DI Leach	
880-58802-23	CS72	Soluble	Solid	DI Leach	
880-58802-24	CS73	Soluble	Solid	DI Leach	
880-58802-25	CS74	Soluble	Solid	DI Leach	
880-58802-26	CS75	Soluble	Solid	DI Leach	
880-58802-27	CS76	Soluble	Solid	DI Leach	
880-58802-28	CS77	Soluble	Solid	DI Leach	
880-58802-29	CS81	Soluble	Solid	DI Leach	
880-58802-30	CS82	Soluble	Solid	DI Leach	
880-58802-31	CS83	Soluble	Solid	DI Leach	
880-58802-32	CS84	Soluble	Solid	DI Leach	
880-58802-33	CS139	Soluble	Solid	DI Leach	
880-58802-34	CS140	Soluble	Solid	DI Leach	
880-58802-35	CS145	Soluble	Solid	DI Leach	
880-58802-36	CS146	Soluble	Solid	DI Leach	
880-58802-37	CS150	Soluble	Solid	DI Leach	
880-58802-38	CS151	Soluble	Solid	DI Leach	
MB 880-111291/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111291/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111291/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58802-19 MS	CS52	Soluble	Solid	DI Leach	
880-58802-19 MSD	CS52	Soluble	Solid	DI Leach	
880-58802-29 MS	CS81	Soluble	Solid	DI Leach	
880-58802-29 MSD	CS81	Soluble	Solid	DI Leach	

Leach Batch: 111292

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-39	CS167	Soluble	Solid	DI Leach	
880-58802-40	CS168	Soluble	Solid	DI Leach	
880-58802-41	CS26	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 111292 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-42	CS27	Soluble	Solid	DI Leach	
880-58802-43	CS29	Soluble	Solid	DI Leach	
880-58802-44	CS31	Soluble	Solid	DI Leach	
880-58802-45	CS32	Soluble	Solid	DI Leach	
880-58802-46	CS35	Soluble	Solid	DI Leach	
880-58802-47	CS36	Soluble	Solid	DI Leach	
880-58802-48	CS39	Soluble	Solid	DI Leach	
880-58802-49	CS40	Soluble	Solid	DI Leach	
880-58802-50	CS43	Soluble	Solid	DI Leach	
880-58802-51	CS54	Soluble	Solid	DI Leach	
880-58802-52	CS55	Soluble	Solid	DI Leach	
880-58802-53	CS56	Soluble	Solid	DI Leach	
880-58802-54	CS57	Soluble	Solid	DI Leach	
880-58802-55	CS58	Soluble	Solid	DI Leach	
880-58802-56	CS59	Soluble	Solid	DI Leach	
880-58802-57	CS65	Soluble	Solid	DI Leach	
880-58802-58	CS67	Soluble	Solid	DI Leach	
MB 880-111292/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111292/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111292/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58802-39 MS	CS167	Soluble	Solid	DI Leach	
880-58802-39 MSD	CS167	Soluble	Solid	DI Leach	
880-58802-49 MS	CS40	Soluble	Solid	DI Leach	
880-58802-49 MSD	CS40	Soluble	Solid	DI Leach	

Leach Batch: 111294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-59	CS68	Soluble	Solid	DI Leach	
880-58802-60	CS69	Soluble	Solid	DI Leach	
880-58802-61	CS170	Soluble	Solid	DI Leach	
880-58802-62	CS178	Soluble	Solid	DI Leach	
880-58802-63	SW06	Soluble	Solid	DI Leach	
880-58802-64	SW08	Soluble	Solid	DI Leach	
880-58802-65	SW10	Soluble	Solid	DI Leach	
880-58802-66	SW11	Soluble	Solid	DI Leach	
880-58802-67	SW13	Soluble	Solid	DI Leach	
MB 880-111294/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111294/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111294/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 111336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-1	CS10	Soluble	Solid	300.0	111290
880-58802-2	CS11	Soluble	Solid	300.0	111290
880-58802-3	CS13	Soluble	Solid	300.0	111290
880-58802-5	CS19	Soluble	Solid	300.0	111290
880-58802-6	CS21	Soluble	Solid	300.0	111290
880-58802-7	CS22	Soluble	Solid	300.0	111290
880-58802-8	CS23	Soluble	Solid	300.0	111290
880-58802-9	CS24	Soluble	Solid	300.0	111290
880-58802-10	CS25	Soluble	Solid	300.0	111290

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 111336 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-11	CS44	Soluble	Solid	300.0	111290
880-58802-12	CS45	Soluble	Solid	300.0	111290
880-58802-13	CS46	Soluble	Solid	300.0	111290
880-58802-14	CS47	Soluble	Solid	300.0	111290
880-58802-15	CS48	Soluble	Solid	300.0	111290
880-58802-16	CS49	Soluble	Solid	300.0	111290
880-58802-17	CS50	Soluble	Solid	300.0	111290
880-58802-18	CS51	Soluble	Solid	300.0	111290
MB 880-111290/1-A	Method Blank	Soluble	Solid	300.0	111290
LCS 880-111290/2-A	Lab Control Sample	Soluble	Solid	300.0	111290
LCSD 880-111290/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111290
880-58802-1 MS	CS10	Soluble	Solid	300.0	111290
880-58802-1 MSD	CS10	Soluble	Solid	300.0	111290
880-58802-11 MS	CS44	Soluble	Solid	300.0	111290
880-58802-11 MSD	CS44	Soluble	Solid	300.0	111290

Analysis Batch: 111337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-19	CS52	Soluble	Solid	300.0	111291
880-58802-20	CS53	Soluble	Solid	300.0	111291
880-58802-21	CS70	Soluble	Solid	300.0	111291
880-58802-22	CS71	Soluble	Solid	300.0	111291
880-58802-23	CS72	Soluble	Solid	300.0	111291
880-58802-24	CS73	Soluble	Solid	300.0	111291
880-58802-25	CS74	Soluble	Solid	300.0	111291
880-58802-26	CS75	Soluble	Solid	300.0	111291
880-58802-27	CS76	Soluble	Solid	300.0	111291
880-58802-28	CS77	Soluble	Solid	300.0	111291
880-58802-29	CS81	Soluble	Solid	300.0	111291
880-58802-30	CS82	Soluble	Solid	300.0	111291
880-58802-31	CS83	Soluble	Solid	300.0	111291
880-58802-32	CS84	Soluble	Solid	300.0	111291
880-58802-33	CS139	Soluble	Solid	300.0	111291
880-58802-34	CS140	Soluble	Solid	300.0	111291
880-58802-35	CS145	Soluble	Solid	300.0	111291
880-58802-36	CS146	Soluble	Solid	300.0	111291
880-58802-37	CS150	Soluble	Solid	300.0	111291
880-58802-38	CS151	Soluble	Solid	300.0	111291
MB 880-111291/1-A	Method Blank	Soluble	Solid	300.0	111291
LCS 880-111291/2-A	Lab Control Sample	Soluble	Solid	300.0	111291
LCSD 880-111291/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111291
880-58802-19 MS	CS52	Soluble	Solid	300.0	111291
880-58802-19 MSD	CS52	Soluble	Solid	300.0	111291
880-58802-29 MS	CS81	Soluble	Solid	300.0	111291
880-58802-29 MSD	CS81	Soluble	Solid	300.0	111291

Analysis Batch: 111339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-39	CS167	Soluble	Solid	300.0	111292
880-58802-40	CS168	Soluble	Solid	300.0	111292
880-58802-41	CS26	Soluble	Solid	300.0	111292

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 111339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-42	CS27	Soluble	Solid	300.0	111292
880-58802-43	CS29	Soluble	Solid	300.0	111292
880-58802-44	CS31	Soluble	Solid	300.0	111292
880-58802-45	CS32	Soluble	Solid	300.0	111292
880-58802-46	CS35	Soluble	Solid	300.0	111292
880-58802-47	CS36	Soluble	Solid	300.0	111292
880-58802-48	CS39	Soluble	Solid	300.0	111292
880-58802-49	CS40	Soluble	Solid	300.0	111292
880-58802-50	CS43	Soluble	Solid	300.0	111292
880-58802-51	CS54	Soluble	Solid	300.0	111292
880-58802-52	CS55	Soluble	Solid	300.0	111292
880-58802-53	CS56	Soluble	Solid	300.0	111292
880-58802-54	CS57	Soluble	Solid	300.0	111292
880-58802-55	CS58	Soluble	Solid	300.0	111292
880-58802-56	CS59	Soluble	Solid	300.0	111292
880-58802-57	CS65	Soluble	Solid	300.0	111292
880-58802-58	CS67	Soluble	Solid	300.0	111292
MB 880-111292/1-A	Method Blank	Soluble	Solid	300.0	111292
LCS 880-111292/2-A	Lab Control Sample	Soluble	Solid	300.0	111292
LCSD 880-111292/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111292
880-58802-39 MS	CS167	Soluble	Solid	300.0	111292
880-58802-39 MSD	CS167	Soluble	Solid	300.0	111292
880-58802-49 MS	CS40	Soluble	Solid	300.0	111292
880-58802-49 MSD	CS40	Soluble	Solid	300.0	111292

Analysis Batch: 111383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-59	CS68	Soluble	Solid	300.0	111294
880-58802-60	CS69	Soluble	Solid	300.0	111294
880-58802-61	CS170	Soluble	Solid	300.0	111294
880-58802-62	CS178	Soluble	Solid	300.0	111294
880-58802-63	SW06	Soluble	Solid	300.0	111294
880-58802-64	SW08	Soluble	Solid	300.0	111294
880-58802-65	SW10	Soluble	Solid	300.0	111294
880-58802-66	SW11	Soluble	Solid	300.0	111294
880-58802-67	SW13	Soluble	Solid	300.0	111294
MB 880-111294/1-A	Method Blank	Soluble	Solid	300.0	111294
LCS 880-111294/2-A	Lab Control Sample	Soluble	Solid	300.0	111294
LCSD 880-111294/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111294

Leach Batch: 111711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-111711/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111711/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111711/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 111721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-111711/1-A	Method Blank	Soluble	Solid	300.0	111711
LCS 880-111711/2-A	Lab Control Sample	Soluble	Solid	300.0	111711
LCSD 880-111711/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111711

QC Association Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

HPLC/IC

Leach Batch: 111800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-4	CS16	Soluble	Solid	DI Leach	
MB 880-111800/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111800/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111800/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 111803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58802-4	CS16	Soluble	Solid	300.0	111800
MB 880-111800/1-A	Method Blank	Soluble	Solid	300.0	111800
LCS 880-111800/2-A	Lab Control Sample	Soluble	Solid	300.0	111800
LCSD 880-111800/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111800

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS10
Date Collected: 05/30/25 09:00
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 12:14
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 12:14
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 02:34
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 02:34
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 12:18

Client Sample ID: CS11
Date Collected: 05/30/25 09:02
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 12:34
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 12:34
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:06
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 03:06
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 12:39

Client Sample ID: CS13
Date Collected: 05/30/25 09:04
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 12:55
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 12:55
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:21
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 03:21
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 12:46

Client Sample ID: CS16
Date Collected: 05/30/25 09:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 13:15
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:15

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS16
Date Collected: 05/30/25 09:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:38
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 03:38
Soluble	Leach	DI Leach			111800	SMC	EET MID	06/09/25 12:52
Soluble	Analysis	300.0		1	111803	SMC	EET MID	06/09/25 17:44

Client Sample ID: CS19
Date Collected: 05/30/25 09:08
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 13:36
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:36
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:54
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 03:54
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:01

Client Sample ID: CS21
Date Collected: 05/30/25 09:10
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 13:56
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:56
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:10
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 04:10
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:22

Client Sample ID: CS22
Date Collected: 05/30/25 09:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 14:17
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:17
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:26
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 04:26

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS22
Date Collected: 05/30/25 09:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:29

Client Sample ID: CS23
Date Collected: 05/30/25 09:14
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 14:37
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:37
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:42
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 04:42
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:36

Client Sample ID: CS24
Date Collected: 05/30/25 09:16
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 14:58
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:58
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:59
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 04:59
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:43

Client Sample ID: CS25
Date Collected: 05/30/25 09:18
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 15:19
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 15:19
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 05:15
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 05:15
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:50

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS44
Date Collected: 05/30/25 09:40
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 16:53
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 16:53
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 05:32
Total/NA	Prep	8015NM Prep			111283	FC	EET MID	06/02/25 08:21
Total/NA	Analysis	8015B NM		1	111332	TKC	EET MID	06/03/25 05:32
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 13:57

Client Sample ID: CS45
Date Collected: 05/30/25 09:42
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 17:14
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 17:14
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:31
Total/NA	Prep	8015NM Prep			111384	FC	EET MID	06/03/25 10:55
Total/NA	Analysis	8015B NM		1	111420	TKC	EET MID	06/04/25 05:31
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 14:19

Client Sample ID: CS46
Date Collected: 05/30/25 09:44
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 17:34
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 17:34
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 00:26
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 00:26
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 14:26

Client Sample ID: CS47
Date Collected: 05/30/25 09:46
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 17:55
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 17:55

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS47
Date Collected: 05/30/25 09:46
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 00:41
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 00:41
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 14:47

Client Sample ID: CS48
Date Collected: 05/30/25 09:48
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 18:15
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:15
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 00:58
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 00:58
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 14:54

Client Sample ID: CS49
Date Collected: 05/30/25 09:50
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 18:36
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:36
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 01:13
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 01:13
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 15:01

Client Sample ID: CS50
Date Collected: 05/30/25 09:52
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 18:56
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:56
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 01:30
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 01:30

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS50
Date Collected: 05/30/25 09:52
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 15:08

Client Sample ID: CS51
Date Collected: 05/30/25 09:54
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 19:17
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:17
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 01:46
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 01:46
Soluble	Leach	DI Leach			111290	SA	EET MID	06/02/25 09:48
Soluble	Analysis	300.0		1	111336	CH	EET MID	06/02/25 15:15

Client Sample ID: CS52
Date Collected: 05/30/25 09:56
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 19:37
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:37
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 02:02
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 02:02
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 16:19

Client Sample ID: CS53
Date Collected: 05/30/25 09:58
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111293	MNR	EET MID	06/02/25 09:56
Total/NA	Analysis	8021B		1	111281	MNR	EET MID	06/02/25 19:58
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:58
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 02:18
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 02:18
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 16:41

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS70
Date Collected: 05/30/25 10:20
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 13:18
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:18
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 02:34
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 02:34
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 16:48

Client Sample ID: CS71
Date Collected: 05/30/25 10:22
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 13:38
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:38
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:46
Total/NA	Prep	8015NM Prep			111384	FC	EET MID	06/03/25 10:55
Total/NA	Analysis	8015B NM		1	111420	TKC	EET MID	06/04/25 05:46
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 16:55

Client Sample ID: CS72
Date Collected: 05/30/25 10:24
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 13:59
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 13:59
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:21
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 03:21
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:03

Client Sample ID: CS73
Date Collected: 05/30/25 10:26
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 14:19
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:19

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS73
Date Collected: 05/30/25 10:26
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:38
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 03:38
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:25

Client Sample ID: CS74
Date Collected: 05/30/25 10:28
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 14:40
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 14:40
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 03:54
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 03:54
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:32

Client Sample ID: CS75
Date Collected: 05/30/25 10:30
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 15:00
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 15:00
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:10
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 04:10
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:39

Client Sample ID: CS76
Date Collected: 05/30/25 10:32
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 15:21
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 15:21
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:03
Total/NA	Prep	8015NM Prep			111384	FC	EET MID	06/03/25 10:55
Total/NA	Analysis	8015B NM		1	111420	TKC	EET MID	06/04/25 06:03

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Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS76
Date Collected: 05/30/25 10:32
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:47

Client Sample ID: CS77
Date Collected: 05/30/25 10:34
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 15:41
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 15:41
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:19
Total/NA	Prep	8015NM Prep			111384	FC	EET MID	06/03/25 10:55
Total/NA	Analysis	8015B NM		1	111420	TKC	EET MID	06/04/25 06:19
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 17:54

Client Sample ID: CS81
Date Collected: 05/30/25 10:36
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 16:02
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 16:02
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 04:59
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 04:59
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 18:01

Client Sample ID: CS82
Date Collected: 05/30/25 10:38
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 16:22
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 16:22
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 05:15
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 05:15
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 18:23

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS83
Date Collected: 05/30/25 10:40
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 18:13
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:13
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 05:32
Total/NA	Prep	8015NM Prep			111324	FC	EET MID	06/02/25 10:46
Total/NA	Analysis	8015B NM		1	111334	TKC	EET MID	06/03/25 05:32
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 18:30

Client Sample ID: CS84
Date Collected: 05/30/25 10:42
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 18:33
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:33
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 01:00
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 01:00
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 18:52

Client Sample ID: CS139
Date Collected: 05/30/25 10:44
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 18:54
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:54
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 01:48
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 01:48
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:00

Client Sample ID: CS140
Date Collected: 05/30/25 10:46
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 19:14
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:14

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS140
Date Collected: 05/30/25 10:46
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 02:05
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 02:05
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:07

Client Sample ID: CS145
Date Collected: 05/30/25 10:48
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 19:35
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:35
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 02:20
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 02:20
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:14

Client Sample ID: CS146
Date Collected: 05/30/25 10:50
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 19:55
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:55
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 02:37
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 02:37
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:22

Client Sample ID: CS150
Date Collected: 05/30/25 10:52
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 20:15
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:15
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 02:52
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 02:52

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS150
Date Collected: 05/30/25 10:52
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:29

Client Sample ID: CS151
Date Collected: 05/30/25 10:54
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 20:36
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:36
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 03:08
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 03:08
Soluble	Leach	DI Leach			111291	SA	EET MID	06/02/25 09:52
Soluble	Analysis	300.0		1	111337	CH	EET MID	06/02/25 19:36

Client Sample ID: CS167
Date Collected: 05/30/25 10:56
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 20:56
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:56
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 03:24
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 03:24
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 16:26

Client Sample ID: CS168
Date Collected: 05/30/25 10:58
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111295	MNR	EET MID	06/02/25 09:58
Total/NA	Analysis	8021B		1	111288	MNR	EET MID	06/02/25 21:17
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 21:17
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 03:40
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 03:40
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 16:47

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS26
Date Collected: 05/30/25 09:20
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 18:34
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:34
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 03:55
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 03:55
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 16:55

Client Sample ID: CS27
Date Collected: 05/30/25 09:22
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 18:54
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 18:54
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 04:26
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 04:26
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:02

Client Sample ID: CS29
Date Collected: 05/30/25 09:24
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 19:15
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:15
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 04:43
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 04:43
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:09

Client Sample ID: CS31
Date Collected: 05/30/25 09:26
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 19:35
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:35

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS31
Date Collected: 05/30/25 09:26
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 04:59
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 04:59
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:30

Client Sample ID: CS32
Date Collected: 05/30/25 09:28
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 19:56
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 19:56
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:14
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 05:14
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:37

Client Sample ID: CS35
Date Collected: 05/30/25 09:30
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 20:16
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:16
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:31
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 05:31
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:44

Client Sample ID: CS36
Date Collected: 05/30/25 09:32
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 20:37
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:37
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 05:46
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 05:46

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS36
Date Collected: 05/30/25 09:32
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:51

Client Sample ID: CS39
Date Collected: 05/30/25 09:34
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 20:57
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 20:57
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:03
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 06:03
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 17:58

Client Sample ID: CS40
Date Collected: 05/30/25 09:36
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 21:18
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 21:18
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:19
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 06:19
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 18:05

Client Sample ID: CS43
Date Collected: 05/30/25 09:38
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 21:38
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 21:38
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:36
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 06:36
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 18:27

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS54
Date Collected: 05/30/25 10:00
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 23:02
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 23:02
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/04/25 06:51
Total/NA	Prep	8015NM Prep			111325	FC	EET MID	06/02/25 10:53
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/04/25 06:51
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 18:34

Client Sample ID: CS55
Date Collected: 05/30/25 10:02
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 23:23
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 23:23
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 16:59
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 16:59
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 18:55

Client Sample ID: CS56
Date Collected: 05/30/25 10:04
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/02/25 23:43
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/02/25 23:43
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 17:47
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 17:47
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:02

Client Sample ID: CS57
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 00:04
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 00:04

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS57
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 18:03
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 18:03
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:09

Client Sample ID: CS58
Date Collected: 05/30/25 10:08
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 00:24
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 00:24
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 18:19
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 18:19
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:16

Client Sample ID: CS59
Date Collected: 05/30/25 10:10
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 00:45
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 00:45
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 18:35
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 18:35
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:23

Client Sample ID: CS65
Date Collected: 05/30/25 10:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 01:06
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 01:06
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 18:51
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 18:51

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS65
Date Collected: 05/30/25 10:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:30

Client Sample ID: CS67
Date Collected: 05/30/25 10:14
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 01:26
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 01:26
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 19:07
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 19:07
Soluble	Leach	DI Leach			111292	SA	EET MID	06/02/25 09:55
Soluble	Analysis	300.0		1	111339	CH	EET MID	06/02/25 19:37

Client Sample ID: CS68
Date Collected: 05/30/25 10:16
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-59
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 01:47
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 01:47
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 19:23
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 19:23
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 12:46

Client Sample ID: CS69
Date Collected: 05/30/25 10:18
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111296	MNR	EET MID	06/02/25 09:59
Total/NA	Analysis	8021B		1	111341	MNR	EET MID	06/03/25 02:07
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 02:07
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 19:39
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 19:39
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 12:53

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: CS170
Date Collected: 05/30/25 11:00
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-61
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 11:32
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 11:32
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 19:55
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 19:55
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:00

Client Sample ID: CS178
Date Collected: 05/30/25 11:02
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-62
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 11:53
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 11:53
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 20:27
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 20:27
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:08

Client Sample ID: SW06
Date Collected: 05/30/25 11:04
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-63
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 12:13
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 12:13
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 20:43
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 20:43
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:42

Client Sample ID: SW08
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 12:34
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 12:34

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW08
Date Collected: 05/30/25 10:06
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/05/25 10:37
Total/NA	Prep	8015NM Prep			111501	FC	EET MID	06/04/25 12:24
Total/NA	Analysis	8015B NM		1	111564	TKC	EET MID	06/05/25 10:37
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:49

Client Sample ID: SW10
Date Collected: 05/30/25 10:08
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-65
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 12:54
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 12:54
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 21:15
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 21:15
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 13:56

Client Sample ID: SW11
Date Collected: 05/30/25 11:10
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-66
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 13:14
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 13:14
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 21:32
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 21:32
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 14:03

Client Sample ID: SW13
Date Collected: 05/30/25 11:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-67
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			111298	MNR	EET MID	06/02/25 10:03
Total/NA	Analysis	8021B		1	111355	MNR	EET MID	06/03/25 13:35
Total/NA	Analysis	Total BTEX		1	111351	SM	EET MID	06/03/25 13:35
Total/NA	Analysis	8015 NM		1	111417	SM	EET MID	06/03/25 21:47
Total/NA	Prep	8015NM Prep			111328	FC	EET MID	06/02/25 11:00
Total/NA	Analysis	8015B NM		1	111418	TKC	EET MID	06/03/25 21:47

Lab Chronicle

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Client Sample ID: SW13
Date Collected: 05/30/25 11:12
Date Received: 05/30/25 16:06

Lab Sample ID: 880-58802-67
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			111294	SA	EET MID	06/03/25 09:57
Soluble	Analysis	300.0		1	111383	CH	EET MID	06/03/25 14:10

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-58802-1	CS10	Solid	05/30/25 09:00	05/30/25 16:06	1'
880-58802-2	CS11	Solid	05/30/25 09:02	05/30/25 16:06	1'
880-58802-3	CS13	Solid	05/30/25 09:04	05/30/25 16:06	1.5'
880-58802-4	CS16	Solid	05/30/25 09:06	05/30/25 16:06	1'
880-58802-5	CS19	Solid	05/30/25 09:08	05/30/25 16:06	0.5'
880-58802-6	CS21	Solid	05/30/25 09:10	05/30/25 16:06	0.5'
880-58802-7	CS22	Solid	05/30/25 09:12	05/30/25 16:06	0.5'
880-58802-8	CS23	Solid	05/30/25 09:14	05/30/25 16:06	0.5'
880-58802-9	CS24	Solid	05/30/25 09:16	05/30/25 16:06	0.5'
880-58802-10	CS25	Solid	05/30/25 09:18	05/30/25 16:06	0.5'
880-58802-11	CS44	Solid	05/30/25 09:40	05/30/25 16:06	1'
880-58802-12	CS45	Solid	05/30/25 09:42	05/30/25 16:06	1'
880-58802-13	CS46	Solid	05/30/25 09:44	05/30/25 16:06	1'
880-58802-14	CS47	Solid	05/30/25 09:46	05/30/25 16:06	1'
880-58802-15	CS48	Solid	05/30/25 09:48	05/30/25 16:06	1'
880-58802-16	CS49	Solid	05/30/25 09:50	05/30/25 16:06	1'
880-58802-17	CS50	Solid	05/30/25 09:52	05/30/25 16:06	1'
880-58802-18	CS51	Solid	05/30/25 09:54	05/30/25 16:06	1'
880-58802-19	CS52	Solid	05/30/25 09:56	05/30/25 16:06	1'
880-58802-20	CS53	Solid	05/30/25 09:58	05/30/25 16:06	1'
880-58802-21	CS70	Solid	05/30/25 10:20	05/30/25 16:06	1'
880-58802-22	CS71	Solid	05/30/25 10:22	05/30/25 16:06	1'
880-58802-23	CS72	Solid	05/30/25 10:24	05/30/25 16:06	1'
880-58802-24	CS73	Solid	05/30/25 10:26	05/30/25 16:06	1'
880-58802-25	CS74	Solid	05/30/25 10:28	05/30/25 16:06	1'
880-58802-26	CS75	Solid	05/30/25 10:30	05/30/25 16:06	1'
880-58802-27	CS76	Solid	05/30/25 10:32	05/30/25 16:06	1'
880-58802-28	CS77	Solid	05/30/25 10:34	05/30/25 16:06	1'
880-58802-29	CS81	Solid	05/30/25 10:36	05/30/25 16:06	1'
880-58802-30	CS82	Solid	05/30/25 10:38	05/30/25 16:06	1'
880-58802-31	CS83	Solid	05/30/25 10:40	05/30/25 16:06	1'
880-58802-32	CS84	Solid	05/30/25 10:42	05/30/25 16:06	2'
880-58802-33	CS139	Solid	05/30/25 10:44	05/30/25 16:06	2'
880-58802-34	CS140	Solid	05/30/25 10:46	05/30/25 16:06	2'
880-58802-35	CS145	Solid	05/30/25 10:48	05/30/25 16:06	3'
880-58802-36	CS146	Solid	05/30/25 10:50	05/30/25 16:06	3'
880-58802-37	CS150	Solid	05/30/25 10:52	05/30/25 16:06	3'
880-58802-38	CS151	Solid	05/30/25 10:54	05/30/25 16:06	3.5'
880-58802-39	CS167	Solid	05/30/25 10:56	05/30/25 16:06	2'
880-58802-40	CS168	Solid	05/30/25 10:58	05/30/25 16:06	1.5'
880-58802-41	CS26	Solid	05/30/25 09:20	05/30/25 16:06	0.5'
880-58802-42	CS27	Solid	05/30/25 09:22	05/30/25 16:06	1'
880-58802-43	CS29	Solid	05/30/25 09:24	05/30/25 16:06	2'
880-58802-44	CS31	Solid	05/30/25 09:26	05/30/25 16:06	0.5'
880-58802-45	CS32	Solid	05/30/25 09:28	05/30/25 16:06	0.5'
880-58802-46	CS35	Solid	05/30/25 09:30	05/30/25 16:06	0.5'
880-58802-47	CS36	Solid	05/30/25 09:32	05/30/25 16:06	0.5'
880-58802-48	CS39	Solid	05/30/25 09:34	05/30/25 16:06	1'
880-58802-49	CS40	Solid	05/30/25 09:36	05/30/25 16:06	1'
880-58802-50	CS43	Solid	05/30/25 09:38	05/30/25 16:06	1'
880-58802-51	CS54	Solid	05/30/25 10:00	05/30/25 16:06	1'
880-58802-52	CS55	Solid	05/30/25 10:02	05/30/25 16:06	1'
880-58802-53	CS56	Solid	05/30/25 10:04	05/30/25 16:06	1'
880-58802-54	CS57	Solid	05/30/25 10:06	05/30/25 16:06	1'

Sample Summary

Client: Ensolum
Project/Site: Flatland FNR Frac Line

Job ID: 880-58802-1
SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-58802-55	CS58	Solid	05/30/25 10:08	05/30/25 16:06	2'
880-58802-56	CS59	Solid	05/30/25 10:10	05/30/25 16:06	1'
880-58802-57	CS65	Solid	05/30/25 10:12	05/30/25 16:06	2'
880-58802-58	CS67	Solid	05/30/25 10:14	05/30/25 16:06	1'
880-58802-59	CS68	Solid	05/30/25 10:16	05/30/25 16:06	1'
880-58802-60	CS69	Solid	05/30/25 10:18	05/30/25 16:06	1'
880-58802-61	CS170	Solid	05/30/25 11:00	05/30/25 16:06	3'
880-58802-62	CS178	Solid	05/30/25 11:02	05/30/25 16:06	1'
880-58802-63	SW06	Solid	05/30/25 11:04	05/30/25 16:06	0-1'
880-58802-64	SW08	Solid	05/30/25 10:06	05/30/25 16:06	0-3'
880-58802-65	SW10	Solid	05/30/25 10:08	05/30/25 16:06	0-3'
880-58802-66	SW11	Solid	05/30/25 11:10	05/30/25 16:06	0-2'
880-58802-67	SW13	Solid	05/30/25 11:12	05/30/25 16:06	0-2'

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

880-58802 Chain of Custody

www.xenco.com Page 1 of 7

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, Tx, 79701	City, State ZIP:	
Phone:	4325578895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	TG LT		
PO #:	03D3836001		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-1
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	0.6
Total Containers:		Corrected Temperature:	0.5

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS10			0900	1'	C	1		X	X	X	
CS11			0902	1'							
CS13			0904	1.5'							
CS16			0906	1'							
CS19			0908	0.5'							
CS21			0910	0.5'							
CS22			0912	0.5'							
CS23			0914	0.5'							
CS24			0916	0.5'							
CS25			0918	0.5'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	1600	5/30/25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Released to Imaging: 8/4/2025 3:28:31 PM
Received by OCD: 6/20/2025 1:15:28 PM

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 7

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	hgreen@ensolum.com
Phone:	9325578895	Email:	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Tank	Turn Around	
Project Number:	03D383600	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	TG / LT	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D383600		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS44	S	5/30/25	0940	1'	C	1		X	X	X	
CS45			0942	1'							
CS46			0944	1'							
CS47			0946	1'							
CS48			0948	1'							
CS49			0950	1'							
CS50			0952	1'							
CS51			0954	1'							
CS52			0956	1'							
CS53			0958	1'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	1606	5/30/25	2		
3			4		
5			6		

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 3 of 7

Project Manager:	Hadlie Green	Bill to: (If different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	9325578895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D 3836001	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	TG/LF	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D 3836001		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS70	S	5/30/25	1020	1'	C	1		X	X	X	
CS71			1022	1'							
CS72			1024	1'							
CS73			1026	1'							
CS74			1028	1'							
CS75			1030	1'							
CS76			1032	1'							
CS77			1034	1'							
CS81			1036	1'							
CS82			1038	1'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	1006	5/30/25	2		
3			4		
5			6		

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Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 4 of 7

Project Manager:	Hadlie Green	Bill to: (If different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland, TX, 79701	City, State ZIP:	
Phone:	4325778845	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland PNR Frac Line	Turn Around	
Project Number:	03D383600l	☑ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	TG, LT	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D353600l		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS83	S	5/13/25	1040	1'	C	1		X	X	X	
CS84			1042	2'							
CS139			1044	2'							
CS140			1046	2'							
CS145			1048	3'							
CS146			1050	3'							
CS150			1052	3'							
CS151			1054	3.5'							
CS167			1056	2'							
CS168			1058	1.5'							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2		
3			4		
5			6		

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	3255788845	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Liner	Turn Around	☑ Routine ☐ Rush
Project Number:	03D383600I	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	TG, LT		
PO #:	03D383600I		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS26	S	5/30/25	0920	0.5'	C	1		X	X	X	
CS27			0922	1'				X	X	X	
CS29			0924	2'				X	X	X	
CS31			0926	0.5'				X	X	X	
CS32			0928	0.5'				X	X	X	
CS35			0930	0.5				X	X	X	
CS36			0932	0.5'				X	X	X	
CS39			0934	1'				X	X	X	
CS40			0936	1'				X	X	X	
CS43			0938	1'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	1600	5/30/25	2		
3			4		
5			6		

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Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 6 of 7

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N Marienfeld St Ste 400	Address:	
City, State ZIP:	Midland TX 79701	City, State ZIP:	
Phone:	9325548845	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☑ Routine ☐ Rush
Project Number:	03D3836001	Due Date:	
Project Location:	Eddy County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	TG LT		
PO #:	03D3836001		

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No		Thermometer ID:	
Cooler Custody Seals:	Yes No N/A		Correction Factor:	
Sample Custody Seals:	Yes No N/A		Temperature Reading:	
Total Containers:			Corrected Temperature:	

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015	BTEX 8021	Chloride 300	Sample Comments
CS54	S	5/30/25	1000	1'	C	1		X	X	X	
CS55			1002	1'				X	X	X	
CS56			1004	1'				X	X	X	
CS57			1006	1'				X	X	X	
CS58			1008	2'				X	X	X	
CS59			1010	~~2'~~ 1'				X	X	X	
CS65			1012	2'				X	X	X	
CS67			1014	1'				X	X	X	
CS68			1016	1'				X	X	X	
CS69			1018	1'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	1606	5/30/25	2		
3			4		
5			6		

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Hadlie Green	Bill to: (If different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	601 N Marienfeld St. Ste 400	Address:	
City, State ZIP:	Midland, TX 79701	City, State ZIP:	
Phone:	(432)557-8895	Email:	hgreen@ensolum.com/tguadian@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	
Project Number:	03D3836001	☒ Routine ☐ Rush	
Project Location:	Eddy County	Due Date:	
Sampler's Name:	Leandra Tann/Tabitha	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03D3836001		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX 8021	TPH 8015	Chlorides 300.0	Sample Comments
CS170	S	5/30/25	1100	3'	C	1	X	X	X	
CS178			1102	1'			X	X	X	
SW06			1104	0-1'			X	X	X	
SW08			1106	0-3'			X	X	X	
SW10			1108	0-3'			X	X	X	
SW11			1110	0-2'			X	X	X	
SW13			1112	0-2			X	X	X	

LT
05/30/25
NFE

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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1	1600	5/30/25	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-58802-1
SDG Number: Eddy County

Login Number: 58802
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

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JOB DESCRIPTION

FLATLAND FNR FRAC LINE
07A1988214

JOB NUMBER

890-8284-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

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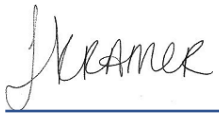
Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Laboratory Job ID: 890-8284-1
SDG: 07A1988214

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Table of Contents 3
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Surrogate Summary 12
QC Sample Results 14
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Certification Summary 31
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Sample Summary 33
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Definitions/Glossary

Client: Ensolum Job ID: 890-8284-1
Project/Site: FLATLAND FNR FRAC LINE SDG: 07A1988214

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum Job ID: 890-8284-1
Project: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1 Eurofins Carlsbad

Job Narrative
890-8284-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 6/11/2025 12:25 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 5.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SW 15 (890-8284-1), SW 17 (890-8284-2), SW 19 (890-8284-3), SW 20 (890-8284-4), SW 14 (890-8284-5), SW 16 (890-8284-6) and SW 18 (890-8284-7).

GC VOA
Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-112066 and analytical batch 880-112062 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.

Diesel Range Organics
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 15

Lab Sample ID: 890-8284-1
Matrix: Solid
Date Collected: 06/11/25 09:49
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/12/25 08:41	06/12/25 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:35*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/12/25 11:35	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/12/25 11:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/11/25 16:02	06/12/25 11:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/11/25 16:02	06/12/25 11:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/11/25 16:02	06/12/25 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*06/11/25 16:02*	*06/12/25 11:36*	*1*
o-Terphenyl	*88*		*70 - 130*	*06/11/25 16:02*	*06/12/25 11:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**397**		9.98		mg/Kg			06/12/25 11:16	1

Client Sample ID: SW 17

Lab Sample ID: 890-8284-2
Matrix: Solid
Date Collected: 06/11/25 08:56
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/12/25 08:41	06/12/25 11:56	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/12/25 08:41	06/12/25 11:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:56*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 17

Lab Sample ID: 890-8284-2
Matrix: Solid
Date Collected: 06/11/25 08:56
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:56*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			06/12/25 11:56	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/12/25 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/11/25 16:02	06/12/25 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/11/25 16:02	06/12/25 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/11/25 16:02	06/12/25 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*85*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:25*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**137**		9.94	mg/Kg			06/12/25 11:38	1

Client Sample ID: SW 19

Lab Sample ID: 890-8284-3
Matrix: Solid
Date Collected: 06/11/25 09:05
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
o-Xylene	<0.00200	U F1	0.00200	mg/Kg		06/12/25 09:22	06/12/25 11:41	1
Xylenes, Total	<0.00399	U F1	0.00399	mg/Kg		06/12/25 09:22	06/12/25 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/12/25 09:22*	*06/12/25 11:41*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/12/25 09:22*	*06/12/25 11:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			06/12/25 11:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			06/12/25 12:41	1

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Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 19

Lab Sample ID: 890-8284-3
Matrix: Solid
Date Collected: 06/11/25 09:05
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 12:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 12:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:41*	*1*
o-Terphenyl	*91*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**309**		9.92		mg/Kg			06/12/25 11:45	1

Client Sample ID: SW 20

Lab Sample ID: 890-8284-4
Matrix: Solid
Date Collected: 06/11/25 09:09
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:22	06/12/25 12:01	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/12/25 09:22	06/12/25 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/12/25 09:22*	*06/12/25 12:01*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*06/12/25 09:22*	*06/12/25 12:01*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/12/25 12:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/12/25 12:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/11/25 16:02	06/12/25 12:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/11/25 16:02	06/12/25 12:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/11/25 16:02	06/12/25 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*89*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:57*	*1*
o-Terphenyl	*93*		*70 - 130*	*06/11/25 16:02*	*06/12/25 12:57*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 20

Lab Sample ID: 890-8284-4
Matrix: Solid
Date Collected: 06/11/25 09:09
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.7		10.0		mg/Kg			06/12/25 12:06	1

Client Sample ID: SW 14

Lab Sample ID: 890-8284-5
Matrix: Solid
Date Collected: 06/11/25 10:08
Date Received: 06/11/25 12:25
Sample Depth: 0-1

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/12/25 09:23	06/12/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*06/12/25 09:23*	*06/12/25 11:46*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*06/12/25 09:23*	*06/12/25 11:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/12/25 11:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/12/25 12:25	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 12:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 12:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:25*	*1*
o-Terphenyl	*89*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	219		9.94		mg/Kg			06/12/25 12:13	1

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 16

Lab Sample ID: 890-8284-6
Matrix: Solid
Date Collected: 06/11/25 10:10
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/12/25 09:23	06/12/25 12:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/12/25 09:23	06/12/25 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*06/12/25 09:23*	*06/12/25 12:07*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/12/25 09:23*	*06/12/25 12:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/12/25 12:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/12/25 12:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 12:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 12:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:41*	*1*
o-Terphenyl	*94*		*70 - 130*	*06/12/25 08:08*	*06/12/25 12:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**117**		9.94		mg/Kg			06/12/25 12:20	1

Client Sample ID: SW 18

Lab Sample ID: 890-8284-7
Matrix: Solid
Date Collected: 06/11/25 10:45
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:24	06/12/25 11:46	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/12/25 09:24	06/12/25 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/12/25 09:24*	*06/12/25 11:46*	*1*

Client Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 18

Date Collected: 06/11/25 10:45
Date Received: 06/11/25 12:25
Sample Depth: 0-2

Lab Sample ID: 890-8284-7

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/12/25 09:24*	*06/12/25 11:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/12/25 11:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/12/25 11:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 11:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 11:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/12/25 08:08	06/12/25 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*06/12/25 08:08*	*06/12/25 11:36*	*1*
o-Terphenyl	*87*		*70 - 130*	*06/12/25 08:08*	*06/12/25 11:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.9**		9.90		mg/Kg			06/12/25 12:27	1

Surrogate Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-8284-1	SW 15	99	94										
890-8284-1 MS	SW 15	93	90										
890-8284-1 MSD	SW 15	94	91										
890-8284-2	SW 17	100	95										
890-8284-3	SW 19	90	100										
890-8284-3 MS	SW 19	99	102										
890-8284-3 MSD	SW 19	91	102										
890-8284-4	SW 20	90	95										
890-8284-5	SW 14	101	100										
890-8284-5 MS	SW 14	107	92										
890-8284-5 MSD	SW 14	101	99										
890-8284-6	SW 16	98	99										
890-8284-7	SW 18	104	91										
890-8284-7 MS	SW 18	101	95										
890-8284-7 MSD	SW 18	95	98										
LCS 880-112065/1-A	Lab Control Sample	90	89										
LCS 880-112066/1-A	Lab Control Sample	111	97										
LCS 880-112067/1-A	Lab Control Sample	101	100										
LCS 880-112068/1-A	Lab Control Sample	97	97										
LCSD 880-112065/2-A	Lab Control Sample Dup	92	89										
LCSD 880-112066/2-A	Lab Control Sample Dup	103	88										
LCSD 880-112067/2-A	Lab Control Sample Dup	102	100										
LCSD 880-112068/2-A	Lab Control Sample Dup	97	97										
MB 880-112065/5-A	Method Blank	90	91										
MB 880-112066/5-A	Method Blank	81	87										
MB 880-112067/5-A	Method Blank	96	96										
MB 880-112068/5-A	Method Blank	93	85										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
890-8284-1	SW 15	85	88										
890-8284-1 MS	SW 15	86	94										
890-8284-1 MSD	SW 15	100	93										
890-8284-2	SW 17	85	89										
890-8284-3	SW 19	88	91										
890-8284-4	SW 20	89	93										
890-8284-5	SW 14	94	89										
890-8284-6	SW 16	97	94										
890-8284-7	SW 18	91	87										
890-8284-7 MS	SW 18	92	94										
890-8284-7 MSD	SW 18	91	92										
LCS 880-112031/2-A	Lab Control Sample	87	78										

Surrogate Summary

Client: Ensolum Job ID: 890-8284-1
Project/Site: FLATLAND FNR FRAC LINE SDG: 07A1988214

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
LCS 880-112058/2-A	Lab Control Sample	76	80								
LCSD 880-112031/3-A	Lab Control Sample Dup	87	79								
LCSD 880-112058/3-A	Lab Control Sample Dup	76	82								
MB 880-112031/1-A	Method Blank	72	75								
MB 880-112058/1-A	Method Blank	73	73								

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-112065/5-A
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112065

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 08:41	06/12/25 11:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/12/25 08:41	06/12/25 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:14*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*06/12/25 08:41*	*06/12/25 11:14*	*1*

Lab Sample ID: LCS 880-112065/1-A
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112065

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1040		mg/Kg		104	70 - 130		
Toluene			0.100	0.09297		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.09910		mg/Kg		99	70 - 130		
m-Xylene & p-Xylene			0.200	0.2012		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1005		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: LCSD 880-112065/2-A
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112065

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1082		mg/Kg		108	70 - 130	4	35
Toluene			0.100	0.09708		mg/Kg		97	70 - 130	4	35
Ethylbenzene			0.100	0.1040		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2116		mg/Kg		106	70 - 130	5	35
o-Xylene			0.100	0.1073		mg/Kg		107	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*

Lab Sample ID: 890-8284-1 MS
Matrix: Solid
Analysis Batch: 112059

Client Sample ID: SW 15
Prep Type: Total/NA
Prep Batch: 112065

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1006		mg/Kg		101	70 - 130		
Toluene	<0.00200	U	0.100	0.09193		mg/Kg		92	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8284-1 MS — **Client Sample ID: SW 15**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 112059 — **Prep Batch: 112065**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09488		mg/Kg		95	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1925		mg/Kg		96	70 - 130
o-Xylene	<0.00200	U	0.100	0.09616		mg/Kg		96	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 890-8284-1 MSD — **Client Sample ID: SW 15**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 112059 — **Prep Batch: 112065**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1019		mg/Kg		102	70 - 130	1	35
Toluene	<0.00200	U	0.100	0.08740		mg/Kg		87	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.100	0.09212		mg/Kg		92	70 - 130	3	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1890		mg/Kg		95	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.09368		mg/Kg		94	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: MB 880-112066/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 112062 — **Prep Batch: 112066**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:22	06/12/25 11:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/12/25 09:22	06/12/25 11:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*06/12/25 09:22*	*06/12/25 11:19*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*06/12/25 09:22*	*06/12/25 11:19*	*1*

Lab Sample ID: LCS 880-112066/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 112062 — **Prep Batch: 112066**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.08285		mg/Kg		83	70 - 130
Toluene			0.100	0.08242		mg/Kg		82	70 - 130
Ethylbenzene			0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene			0.200	0.1795		mg/Kg		90	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-112066/1-A
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112066

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.09160		mg/Kg		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-112066/2-A
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112066

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07435		mg/Kg		74	70 - 130	11	35
Toluene			0.100	0.08239		mg/Kg		82	70 - 130	0	35
Ethylbenzene			0.100	0.09384		mg/Kg		94	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.1633		mg/Kg		82	70 - 130	9	35
o-Xylene			0.100	0.08358		mg/Kg		84	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 890-8284-3 MS
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: SW 19
Prep Type: Total/NA
Prep Batch: 112066

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.07244		mg/Kg		72	70 - 130		
Toluene	<0.00200	U	0.100	0.07431		mg/Kg		74	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.07766		mg/Kg		78	70 - 130		
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1367	F1	mg/Kg		68	70 - 130		
o-Xylene	<0.00200	U F1	0.100	0.06933	F1	mg/Kg		69	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: 890-8284-3 MSD
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: SW 19
Prep Type: Total/NA
Prep Batch: 112066

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09228		mg/Kg		92	70 - 130	24	35
Toluene	<0.00200	U	0.100	0.09002		mg/Kg		90	70 - 130	19	35
Ethylbenzene	<0.00200	U	0.100	0.08800		mg/Kg		88	70 - 130	12	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1595		mg/Kg		80	70 - 130	15	35
o-Xylene	<0.00200	U F1	0.100	0.07960		mg/Kg		80	70 - 130	14	35

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8284-3 MSD
Matrix: Solid
Analysis Batch: 112062

Client Sample ID: SW 19
Prep Type: Total/NA
Prep Batch: 112066

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-112067/5-A
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112067

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/12/25 09:23	06/12/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/12/25 09:23	06/12/25 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	06/12/25 09:23	06/12/25 11:25	1
1,4-Difluorobenzene (Surr)	96		70 - 130	06/12/25 09:23	06/12/25 11:25	1

Lab Sample ID: LCS 880-112067/1-A
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112067

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08713		mg/Kg		87	70 - 130		
Toluene			0.100	0.07684		mg/Kg		77	70 - 130		
Ethylbenzene			0.100	0.08141		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene			0.200	0.1659		mg/Kg		83	70 - 130		
o-Xylene			0.100	0.08549		mg/Kg		85	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-112067/2-A
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112067

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08384		mg/Kg		84	70 - 130	4	35
Toluene			0.100	0.07374		mg/Kg		74	70 - 130	4	35
Ethylbenzene			0.100	0.07814		mg/Kg		78	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1591		mg/Kg		80	70 - 130	4	35
o-Xylene			0.100	0.08217		mg/Kg		82	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-112067/2-A
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112067

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-8284-5 MS
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: SW 14
Prep Type: Total/NA
Prep Batch: 112067

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09970		mg/Kg		100	70 - 130
Toluene	<0.00200	U	0.100	0.09988		mg/Kg		100	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1142		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2309		mg/Kg		115	70 - 130
o-Xylene	<0.00200	U	0.100	0.1141		mg/Kg		114	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-8284-5 MSD
Matrix: Solid
Analysis Batch: 112060

Client Sample ID: SW 14
Prep Type: Total/NA
Prep Batch: 112067

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.09097		mg/Kg		91	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.07902		mg/Kg		79	70 - 130	23	35
Ethylbenzene	<0.00200	U	0.100	0.08486		mg/Kg		85	70 - 130	30	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1717		mg/Kg		86	70 - 130	29	35
o-Xylene	<0.00200	U	0.100	0.08698		mg/Kg		87	70 - 130	27	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-112068/5-A
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112068

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		06/12/25 09:24	06/12/25 11:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		06/12/25 09:24	06/12/25 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/12/25 09:24	06/12/25 11:24	1
1,4-Difluorobenzene (Surr)	85		70 - 130	06/12/25 09:24	06/12/25 11:24	1

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-112068/1-A
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112068

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09875		mg/Kg		99	70 - 130		
Toluene			0.100	0.08980		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09383		mg/Kg		94	70 - 130		
m-Xylene & p-Xylene			0.200	0.1973		mg/Kg		99	70 - 130		
o-Xylene			0.100	0.09836		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-112068/2-A
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112068

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09660		mg/Kg		97	70 - 130	2	35
Toluene			0.100	0.08633		mg/Kg		86	70 - 130	4	35
Ethylbenzene			0.100	0.09010		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1879		mg/Kg		94	70 - 130	5	35
o-Xylene			0.100	0.09388		mg/Kg		94	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-8284-7 MS
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112068

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.09818		mg/Kg		98	70 - 130		
Toluene	<0.00200	U	0.100	0.09257		mg/Kg		93	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.09843		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2073		mg/Kg		104	70 - 130		
o-Xylene	<0.00200	U	0.100	0.1017		mg/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-8284-7 MSD
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1110		mg/Kg		111	70 - 130	12	35
Toluene	<0.00200	U	0.100	0.09633		mg/Kg		96	70 - 130	4	35
Ethylbenzene	<0.00200	U	0.100	0.09948		mg/Kg		99	70 - 130	1	35

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-8284-7 MSD
Matrix: Solid
Analysis Batch: 112061

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112068

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2059		mg/Kg		103	70 - 130	1	35
o-Xylene	<0.00200	U	0.100	0.1014		mg/Kg		101	70 - 130	0	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-112031/1-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112031

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 03:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/11/25 16:02	06/12/25 03:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*06/11/25 16:02*	*06/12/25 03:45*	*1*
o-Terphenyl	*75*		*70 - 130*	*06/11/25 16:02*	*06/12/25 03:45*	*1*

Lab Sample ID: LCS 880-112031/2-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112031

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	806.5		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	799.0		mg/Kg		80	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*78*		*70 - 130*

Lab Sample ID: LCSD 880-112031/3-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112031

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	818.9		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	812.4		mg/Kg		81	70 - 130	2	20

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-112031/3-A
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112031

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	79		70 - 130

Lab Sample ID: 890-8284-1 MS
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: SW 15
Prep Type: Total/NA
Prep Batch: 112031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	747.2		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	801.3		mg/Kg		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 890-8284-1 MSD
Matrix: Solid
Analysis Batch: 112078

Client Sample ID: SW 15
Prep Type: Total/NA
Prep Batch: 112031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	744.9		mg/Kg		74	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	747.5		mg/Kg		75	70 - 130	7	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: MB 880-112058/1-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 112058

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 03:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/12/25 08:08	06/12/25 03:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	06/12/25 08:08	06/12/25 03:45	1
o-Terphenyl	73		70 - 130	06/12/25 08:08	06/12/25 03:45	1

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-112058/2-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 112058

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	854.3		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	886.0		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*80*		*70 - 130*

Lab Sample ID: LCSD 880-112058/3-A
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 112058

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	856.4		mg/Kg		86	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	898.1		mg/Kg		90	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 890-8284-7 MS
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112058

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	781.0		mg/Kg		78	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	825.2		mg/Kg		83	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Lab Sample ID: 890-8284-7 MSD
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112058

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	797.1		mg/Kg		80	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	835.3		mg/Kg		84	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*

QC Sample Results

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-8284-7 MSD
Matrix: Solid
Analysis Batch: 112080

Client Sample ID: SW 18
Prep Type: Total/NA
Prep Batch: 112058

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	*92*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-112056/1-A
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/12/25 09:16	1

Lab Sample ID: LCS 880-112056/2-A
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	235.1		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-112056/3-A
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	236.2		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-8284-1 MS
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: SW 15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	397		250	657.1		mg/Kg		104	90 - 110		

Lab Sample ID: 890-8284-1 MSD
Matrix: Solid
Analysis Batch: 112064

Client Sample ID: SW 15
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	397		250	655.7		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

GC VOA

Analysis Batch: 112059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	8021B	112065
890-8284-2	SW 17	Total/NA	Solid	8021B	112065
MB 880-112065/5-A	Method Blank	Total/NA	Solid	8021B	112065
LCS 880-112065/1-A	Lab Control Sample	Total/NA	Solid	8021B	112065
LCSD 880-112065/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112065
890-8284-1 MS	SW 15	Total/NA	Solid	8021B	112065
890-8284-1 MSD	SW 15	Total/NA	Solid	8021B	112065

Analysis Batch: 112060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-5	SW 14	Total/NA	Solid	8021B	112067
890-8284-6	SW 16	Total/NA	Solid	8021B	112067
MB 880-112067/5-A	Method Blank	Total/NA	Solid	8021B	112067
LCS 880-112067/1-A	Lab Control Sample	Total/NA	Solid	8021B	112067
LCSD 880-112067/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112067
890-8284-5 MS	SW 14	Total/NA	Solid	8021B	112067
890-8284-5 MSD	SW 14	Total/NA	Solid	8021B	112067

Analysis Batch: 112061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-7	SW 18	Total/NA	Solid	8021B	112068
MB 880-112068/5-A	Method Blank	Total/NA	Solid	8021B	112068
LCS 880-112068/1-A	Lab Control Sample	Total/NA	Solid	8021B	112068
LCSD 880-112068/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112068
890-8284-7 MS	SW 18	Total/NA	Solid	8021B	112068
890-8284-7 MSD	SW 18	Total/NA	Solid	8021B	112068

Analysis Batch: 112062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-3	SW 19	Total/NA	Solid	8021B	112066
890-8284-4	SW 20	Total/NA	Solid	8021B	112066
MB 880-112066/5-A	Method Blank	Total/NA	Solid	8021B	112066
LCS 880-112066/1-A	Lab Control Sample	Total/NA	Solid	8021B	112066
LCSD 880-112066/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	112066
890-8284-3 MS	SW 19	Total/NA	Solid	8021B	112066
890-8284-3 MSD	SW 19	Total/NA	Solid	8021B	112066

Prep Batch: 112065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	5035	
890-8284-2	SW 17	Total/NA	Solid	5035	
MB 880-112065/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112065/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112065/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8284-1 MS	SW 15	Total/NA	Solid	5035	
890-8284-1 MSD	SW 15	Total/NA	Solid	5035	

Prep Batch: 112066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-3	SW 19	Total/NA	Solid	5035	
890-8284-4	SW 20	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

GC VOA (Continued)

Prep Batch: 112066 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-112066/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112066/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112066/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8284-3 MS	SW 19	Total/NA	Solid	5035	
890-8284-3 MSD	SW 19	Total/NA	Solid	5035	

Prep Batch: 112067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-5	SW 14	Total/NA	Solid	5035	
890-8284-6	SW 16	Total/NA	Solid	5035	
MB 880-112067/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112067/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112067/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8284-5 MS	SW 14	Total/NA	Solid	5035	
890-8284-5 MSD	SW 14	Total/NA	Solid	5035	

Prep Batch: 112068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-7	SW 18	Total/NA	Solid	5035	
MB 880-112068/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-112068/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-112068/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-8284-7 MS	SW 18	Total/NA	Solid	5035	
890-8284-7 MSD	SW 18	Total/NA	Solid	5035	

Analysis Batch: 112119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	Total BTEX	
890-8284-2	SW 17	Total/NA	Solid	Total BTEX	
890-8284-3	SW 19	Total/NA	Solid	Total BTEX	
890-8284-4	SW 20	Total/NA	Solid	Total BTEX	
890-8284-5	SW 14	Total/NA	Solid	Total BTEX	
890-8284-6	SW 16	Total/NA	Solid	Total BTEX	
890-8284-7	SW 18	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 112031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	8015NM Prep	
890-8284-2	SW 17	Total/NA	Solid	8015NM Prep	
890-8284-3	SW 19	Total/NA	Solid	8015NM Prep	
890-8284-4	SW 20	Total/NA	Solid	8015NM Prep	
MB 880-112031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8284-1 MS	SW 15	Total/NA	Solid	8015NM Prep	
890-8284-1 MSD	SW 15	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

GC Semi VOA

Prep Batch: 112058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-5	SW 14	Total/NA	Solid	8015NM Prep	
890-8284-6	SW 16	Total/NA	Solid	8015NM Prep	
890-8284-7	SW 18	Total/NA	Solid	8015NM Prep	
MB 880-112058/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-112058/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-112058/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-8284-7 MS	SW 18	Total/NA	Solid	8015NM Prep	
890-8284-7 MSD	SW 18	Total/NA	Solid	8015NM Prep	

Analysis Batch: 112078

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	8015B NM	112031
890-8284-2	SW 17	Total/NA	Solid	8015B NM	112031
890-8284-3	SW 19	Total/NA	Solid	8015B NM	112031
890-8284-4	SW 20	Total/NA	Solid	8015B NM	112031
MB 880-112031/1-A	Method Blank	Total/NA	Solid	8015B NM	112031
LCS 880-112031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112031
LCSD 880-112031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112031
890-8284-1 MS	SW 15	Total/NA	Solid	8015B NM	112031
890-8284-1 MSD	SW 15	Total/NA	Solid	8015B NM	112031

Analysis Batch: 112080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-5	SW 14	Total/NA	Solid	8015B NM	112058
890-8284-6	SW 16	Total/NA	Solid	8015B NM	112058
890-8284-7	SW 18	Total/NA	Solid	8015B NM	112058
MB 880-112058/1-A	Method Blank	Total/NA	Solid	8015B NM	112058
LCS 880-112058/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	112058
LCSD 880-112058/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	112058
890-8284-7 MS	SW 18	Total/NA	Solid	8015B NM	112058
890-8284-7 MSD	SW 18	Total/NA	Solid	8015B NM	112058

Analysis Batch: 112129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Total/NA	Solid	8015 NM	
890-8284-2	SW 17	Total/NA	Solid	8015 NM	
890-8284-3	SW 19	Total/NA	Solid	8015 NM	
890-8284-4	SW 20	Total/NA	Solid	8015 NM	
890-8284-5	SW 14	Total/NA	Solid	8015 NM	
890-8284-6	SW 16	Total/NA	Solid	8015 NM	
890-8284-7	SW 18	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 112056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Soluble	Solid	DI Leach	
890-8284-2	SW 17	Soluble	Solid	DI Leach	
890-8284-3	SW 19	Soluble	Solid	DI Leach	
890-8284-4	SW 20	Soluble	Solid	DI Leach	
890-8284-5	SW 14	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

HPLC/IC (Continued)

Leach Batch: 112056 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-6	SW 16	Soluble	Solid	DI Leach	
890-8284-7	SW 18	Soluble	Solid	DI Leach	
MB 880-112056/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-112056/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-112056/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-8284-1 MS	SW 15	Soluble	Solid	DI Leach	
890-8284-1 MSD	SW 15	Soluble	Solid	DI Leach	

Analysis Batch: 112064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-8284-1	SW 15	Soluble	Solid	300.0	112056
890-8284-2	SW 17	Soluble	Solid	300.0	112056
890-8284-3	SW 19	Soluble	Solid	300.0	112056
890-8284-4	SW 20	Soluble	Solid	300.0	112056
890-8284-5	SW 14	Soluble	Solid	300.0	112056
890-8284-6	SW 16	Soluble	Solid	300.0	112056
890-8284-7	SW 18	Soluble	Solid	300.0	112056
MB 880-112056/1-A	Method Blank	Soluble	Solid	300.0	112056
LCS 880-112056/2-A	Lab Control Sample	Soluble	Solid	300.0	112056
LCSD 880-112056/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	112056
890-8284-1 MS	SW 15	Soluble	Solid	300.0	112056
890-8284-1 MSD	SW 15	Soluble	Solid	300.0	112056

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 15

Date Collected: 06/11/25 09:49
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112065	06/12/25 08:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112059	06/12/25 11:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112031	06/11/25 16:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112078	06/12/25 11:36	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 11:16	CH	EET MID

Client Sample ID: SW 17

Date Collected: 06/11/25 08:56
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	112065	06/12/25 08:41	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112059	06/12/25 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	112031	06/11/25 16:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112078	06/12/25 12:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 11:38	CH	EET MID

Client Sample ID: SW 19

Date Collected: 06/11/25 09:05
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112066	06/12/25 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112062	06/12/25 11:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112031	06/11/25 16:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112078	06/12/25 12:41	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 11:45	CH	EET MID

Client Sample ID: SW 20

Date Collected: 06/11/25 09:09
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	112066	06/12/25 09:22	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112062	06/12/25 12:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 12:01	SM	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 20

Lab Sample ID: 890-8284-4
Date Collected: 06/11/25 09:09
Matrix: Solid
Date Received: 06/11/25 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	112031	06/11/25 16:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112078	06/12/25 12:57	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 12:06	CH	EET MID

Client Sample ID: SW 14

Lab Sample ID: 890-8284-5
Date Collected: 06/11/25 10:08
Matrix: Solid
Date Received: 06/11/25 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112067	06/12/25 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112060	06/12/25 11:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	112058	06/12/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112080	06/12/25 12:25	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 12:13	CH	EET MID

Client Sample ID: SW 16

Lab Sample ID: 890-8284-6
Date Collected: 06/11/25 10:10
Matrix: Solid
Date Received: 06/11/25 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	112067	06/12/25 09:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112060	06/12/25 12:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 12:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 12:41	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112058	06/12/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112080	06/12/25 12:41	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 12:20	CH	EET MID

Client Sample ID: SW 18

Lab Sample ID: 890-8284-7
Date Collected: 06/11/25 10:45
Matrix: Solid
Date Received: 06/11/25 12:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	112068	06/12/25 09:24	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	112061	06/12/25 11:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			112119	06/12/25 11:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			112129	06/12/25 11:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	112058	06/12/25 08:08	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	112080	06/12/25 11:36	TKC	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Client Sample ID: SW 18

Date Collected: 06/11/25 10:45
Date Received: 06/11/25 12:25

Lab Sample ID: 890-8284-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	112056	06/12/25 07:53	SA	EET MID
Soluble	Analysis	300.0		1			112064	06/12/25 12:27	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum
Project/Site: FLATLAND FNR FRAC LINE

Job ID: 890-8284-1
SDG: 07A1988214

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-8284-1	SW 15	Solid	06/11/25 09:49	06/11/25 12:25	0-1
890-8284-2	SW 17	Solid	06/11/25 08:56	06/11/25 12:25	0-1
890-8284-3	SW 19	Solid	06/11/25 09:05	06/11/25 12:25	0-1
890-8284-4	SW 20	Solid	06/11/25 09:09	06/11/25 12:25	0-2
890-8284-5	SW 14	Solid	06/11/25 10:08	06/11/25 12:25	0-1
890-8284-6	SW 16	Solid	06/11/25 10:10	06/11/25 12:25	0-2
890-8284-7	SW 18	Solid	06/11/25 10:45	06/11/25 12:25	0-2

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6/12/2025

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Hadlie Green	Bill to: (if different)	
Company Name:	Ensolum, LLC	Company Name:	
Address:	3122 National Parks Hwy	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	805-798-2608	Email:	kthomason@ensolum.com; hgreen@ensolum.com aferrell@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Flatland FNR Frac Line	Turn Around	☐ Routine ☑ Rush
Project Number:	07A1988214	Due Date:	24-Hr
Project Location:	32.30486, -103.89709	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Alex Ferrell		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TN/MUC
~~Cooler Custody Seals:~~	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	5.4
Total Containers:		Corrected Temperature:	5.2

ANALYSIS REQUEST

890-8284 Chain of Custody

Preservative Codes

ne: NO DI Water: H_2O
ol: Cool MeOH: Me
L: HC HNO_3: HN
SO_4: H_2 NaOH: Na
PO_4: HP
$aHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Chloride 300	TPH 8015	BTEX 8021	Sample Comments
SW15	So:1	6/11/25	0949	0-1	C	1	X	X	X	
SW17			0856	0-1						
SW19			0905	0-1						
SW20			0909	0-2						
SW14			1008	0-1						
SW16			1010	0-2						
SW18	So:1	6/11/25	1045	0-2	C	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		6/11 1225	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

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Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler: N/A	Lab PM: Kramer, Jessica	Carrier Tracking No(s): N/A	COC No: 890-5267.1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-8284-1
Address: 1211 W. Florida Ave, ,	Due Date Requested: 6/12/2025			Preservation Codes: -
City: Midland	TAT Requested (days): N/A			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: FLATLAND FNR FRAC LINE	Project #: 89000145			
Site: N/A	SSOW#: N/A			Other: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
SW 15 (890-8284-1)	6/11/25	09:49 Mountain	G	Solid			X	X	X	X	X	1	
SW 17 (890-8284-2)	6/11/25	08:56 Mountain	G	Solid			X	X	X	X	X	1	
SW 19 (890-8284-3)	6/11/25	09:05 Mountain	G	Solid			X	X	X	X	X	1	
SW 20 (890-8284-4)	6/11/25	09:09 Mountain	G	Solid			X	X	X	X	X	1	
SW 14 (890-8284-5)	6/11/25	10:08 Mountain	G	Solid			X	X	X	X	X	1	
SW 16 (890-8284-6)	6/11/25	10:10 Mountain	G	Solid			X	X	X	X	X	1	
SW 18 (890-8284-7)	6/11/25	10:45 Mountain	G	Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/11 1630				
Relinquished by:	Date/Time:	Company	Received by: Tekoy Randell Lee	Date/Time: 6/12/25 0800	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.2/5.1°C FR-8

Ver: 10/10/2024

Received by OCD: 6/20/2025 1:15:28 PM

Released to Imaging: 8/4/2025 3:28:31 PM

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8284-1
SDG Number: 07A1988214

Login Number: 8284
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-8284-1
SDG Number: 07A1988214

Login Number: 8284
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 06/12/25 07:29 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

ENSOLUM

APPENDIX E

NMOCD Notifications

Hadlie Green

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Monday, March 17, 2025 4:26 PM
To: Hadlie Green
Cc: Connor Walker; Jeff Broom; Dan Moir; john.hall@flatlandenergy.com; Corbin.Berrones@flatlandenergy.com
Subject: (Extension Approval) - Mewbourne - Flatland FNR Frac Line (Incident Number nAPP2435547582)

[**EXTERNAL EMAIL**]

RE: Incident **#NAPP2435547582**

Hadlie,

A 90-day extension is approved. Please have a remediation plan and/or remediation closure report uploaded to the OCD Permitting Portal no later than **June 16th, 2025**. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet ● Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, March 17, 2025 10:17 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Mewbourne - Extension Request - Flatland FNR Frac Line (Incident Number nAPP2435547582)

From: Hadlie Green <hgreen@ensolum.com>
Sent: Monday, March 17, 2025 10:07 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Connor Walker <cwalker@mewbourne.com>; Jeff Broom <jbroom@mewbourne.com>; Dan Moir <dmoir@ensolum.com>; John Hall <john.hall@flatlandenergy.com>; Corbin Berrones <Corbin.Berrones@flatlandenergy.com>
Subject: [EXTERNAL] Mewbourne - Extension Request - Flatland FNR Frac Line (Incident Number nAPP2435547582)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

Flatland FNR Frac Line (Incident Number nAPP2435547582)

Mewbourne Oil Company (Mewbourne) is requesting an extension for the current deadline of March 17, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Flatland FNR Frac Line (Incident Number nAPP2435547582). The release was discovered on December 16, 2024. Initial assessment and delineation activities have been completed and excavation activities are required. Excavation activities are delayed due to the required completion of an ARMS review and pedestrian survey. In order to complete remediation efforts, review the laboratory analytical results, and submit a remediation work plan or closure report, Mewbourne requests a 90-day extension of this deadline until July 15, 2025.

Depth to groundwater is estimated to be greater than 100 feet bgs. The closest continuously flowing or significant watercourse to the Site is a river that is 4,670 feet southeast 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 line. The Site is a medium potential karst designation area. Potential Site receptors are identified on the attached Figure 1.

Thank you,

Hadlie Green
Project Geologist
432-557-8895
hgreen@ensolum.com
Ensolum, LLC

Sante Fe Main Office
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 477445

QUESTIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 477445
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2435547582**
Incident Name	**NAPP2435547582 FLATLAND FNR FRAC LINE @ 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	Flatland FNR Frac Line
Date Release Discovered	12/16/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Human Error | Pipeline (Any) | Produced Water | Released: 185 BBL | Recovered: 0 BBL | Lost: 185 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 477445
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 12/20/2024

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QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 477445
	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	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (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 500 and 1000 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2990
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	50
GRO+DRO (EPA SW-846 Method 8015M)	50
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	01/20/2025
On what date will (or did) the final sampling or liner inspection occur	06/11/2025
On what date will (or was) the remediation complete(d)	06/11/2025
What is the estimated surface area (in square feet) that will be reclaimed	31735
What is the estimated volume (in cubic yards) that will be reclaimed	2350
What is the estimated surface area (in square feet) that will be remediated	2350
What is the estimated volume (in cubic yards) that will be remediated	2350
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 477445
	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	*Not answered.*
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	Yes
In which state is the disposal taking place	TX
What is the name of the out-of-state facility	R360 Red Bluff
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.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 06/20/2025
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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QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 477445
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 477445
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**472290**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**06/11/2025**
What was the (estimated) number of samples that were to be gathered	**8**
What was the sampling surface area in square feet	**47607**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	31735
What was the total volume (cubic yards) remediated	2350
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	31735
What was the total volume (in cubic yards) reclaimed	2350
Summarize any additional remediation activities not included by answers (above)	Please see attached report for complete list of remediation activities.

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com Date: 06/20/2025

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QUESTIONS (continued)

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 477445
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 477445

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	14744
	Action Number: 477445
	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 #NAPP2435547582 FLATLAND FNR FRAC LINE, thank you. This Remediation Closure Report is approved.	8/4/2025