

Location:	Tiger Compressor Station	
Spill Date:	12/17/2022	
Area 2		
Approximate Area =	13162.00	sq. ft.
Average Saturation (or depth) of spill =	2.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	11.72	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	21.19	bbls
Total Produced Water =	0.00	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	0.00	bbls



November 11, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request Addendum
Tiger Compressor Station
Incident Number NAPP2235638568
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request Addendum (Addendum)* to document assessment, excavation, and soil sampling activities performed at the Tiger Compressor Station (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil at the Site. A *Closure Request* was submitted for this release on March 17, 2023. New Mexico Oil Conservation Division (NMOCD) denied the request stating that horizontal delineation samples should be collected 1-2 feet maximum from the observed edge of the release and sidewall samples should be collected from the excavation adjacent to the battery/equipment. Additional soil sampling was completed and results are reported in this *Addendum*. Based on excavation activities and analytical results from soil sampling events, XTO is submitting this *Addendum*, describing remediation that has occurred and requesting closure for Incident Number NAPP2235638568.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 20, Township 25 South, Range 30 East, Eddy County, New Mexico (32.11807°, -103.90896°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 17, 2022, a 0.5-inch nipple on the Lease Automatic Custody Transfer (LACT) unit cracked at the threads, releasing 21.19 barrels (bbls) of crude oil onto the pad surface. The fluid flowed from the pad into the pasture, where it pooled. No free-standing fluids were recovered. XTO reported the release to the NMOCD on a Release Notification Form C-141 (Form C-141) on December 22, 2022. The release was assigned Incident Number NAPP2235638568.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 4 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. On February 4, 2020, a soil boring (C-4394) was drilled 0.47 miles southeast of the Site utilizing a sonic drill rig. Soil

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boring C-4394 was drilled to a depth of 109 feet bgs. A field geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater was greater than 109 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips. All nearby wells are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 2,268 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 mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT AND DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

On January 13, 2023, Site assessment activities were conducted 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 and around the release extent at a depth of 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. Soil samples delivered to the laboratory the same day they are collected may not have equilibrated to the 6 degrees Celcius required for shipment and long-term storage, but are considered to have been received in acceptable condition by the laboratory.

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On February 2, 2023, Ensolum personnel were at the Site to oversee delineation activities. A total of five potholes (PH01 through PH05) were advanced via backhoe within the release extent to assess the vertical extent of impacted soil. The potholes were advanced to depths ranging from 2 feet to 10 feet bgs. Delineation soil samples were collected from each pothole at depths ranging from 1-foot to 10 feet bgs. Soil from the potholes was field screened for VOCs and chloride and field screening results and observations for the potholes were logged on lithologic soil sampling logs, which are included in Appendix C.

On February 1, 2024, Ensolum personnel conducted additional horizontal delineation activities in response to NMOC comments on the denied *Closure Request*. Six surface soil samples (SS09 to SS14) were collected around the release extent at a depth of 0.5 feet bgs to more accurately define the edge of the release extent. Soil from the samples was field screened for VOCs and chloride and submitted for laboratory analysis of BTEX, TPH and chloride. The delineation soil sample locations are depicted on Figure 2.

Laboratory analytical results for delineation soil samples SS01/PH01, collected on pad, and SS04/PH04 and PH05, collected in the pasture, indicated TPH concentrations exceeded the Closure Criteria and the reclamation requirement. Laboratory analytical results for delineation soil samples SS02/PH02 and SS03/PH03, indicated all COC concentrations were compliant with the Closure Criteria. In addition, laboratory analytical results for SS05 through SS14, collected on pad around the release extent, indicated all COC concentrations were compliant with the strictest Table I Closure Criteria and successfully defined the lateral extent of the release. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for soil samples SS01/PH01, SS04/PH04, and SS05/PH05, excavation activities were warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between February 3 and March 3, 2023, impacted soil was excavated from the release area on pad and in the pasture as indicated by visible staining and laboratory analytical results for select delineation soil samples. Excavation activities were performed using a track-mounted backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The on pad excavation was completed to a depth of 1.5 feet bgs. The excavation area measured approximately 600 square feet. A total of approximately 33 cubic yards of impacted soil was removed during excavation activities. The pasture excavation was completed to a maximum depth of 4 feet bgs. The excavation area measured approximately 3,070 square feet and a total of approximately 455 cubic yards of soil was removed. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of the impacted soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS03 were collected from the floor of the on pad excavation at a depth of 1.5 feet bgs. Due to the shallow nature of the excavation, the sidewalls were initially included in the composite areas of the floor samples. On February 21, 2024, one 5-point composite sidewall soil sample (SW13) was collected from ground surface to 1.5 feet bgs in response to NMOC comments on the denied *Closure Request*. The samples were field screened for VOCs and chloride and submitted for laboratory analysis of BTEX, TPH and chloride.

Composite soil samples FS04 through FS20 were collected from the floor of the pasture excavation at a depth of 4 feet bgs. Composite sidewall soil samples SW01 through SW12 were collected from the sidewalls of the pasture excavation at depths ranging from the ground surface to 4 feet bgs. The soil

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samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. Due to the proximity of the on pad excavation to active processing equipment the excavation was backfilled with locally procured materials. The pasture excavation was secured with fencing until it was backfilled later in 2023.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the excavation soil samples collected within both excavations indicated all COC concentrations were compliant with the Closure Criteria and compliant with the reclamation requirement, where applicable. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the December 17, 2022, release of crude oil. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement, where applicable. Based on the soil sample analytical results, no further remediation was required. XTO backfilled the on pad excavation and pasture excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture. Post backfill photographs are included in Appendix B. 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 release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater and address all deficiencies as noted in the original *Closure Request* denial response. As such, XTO respectfully requests closure for Incident Number NAPP2235638568.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink that reads "T Morrissey".

Tacoma Morrissey
Senior Geologist, M.S.

A handwritten signature in black ink that reads "Ashley L. Ager".

Ashley Ager
Principal, Geologist

cc: Kaylan Dirkx, XTO
Colton Brown, XTO
Bureau of Land Management

Appendices:

Figure 1 Site Location Map
Figure 2 Delineation Soil Sample Locations

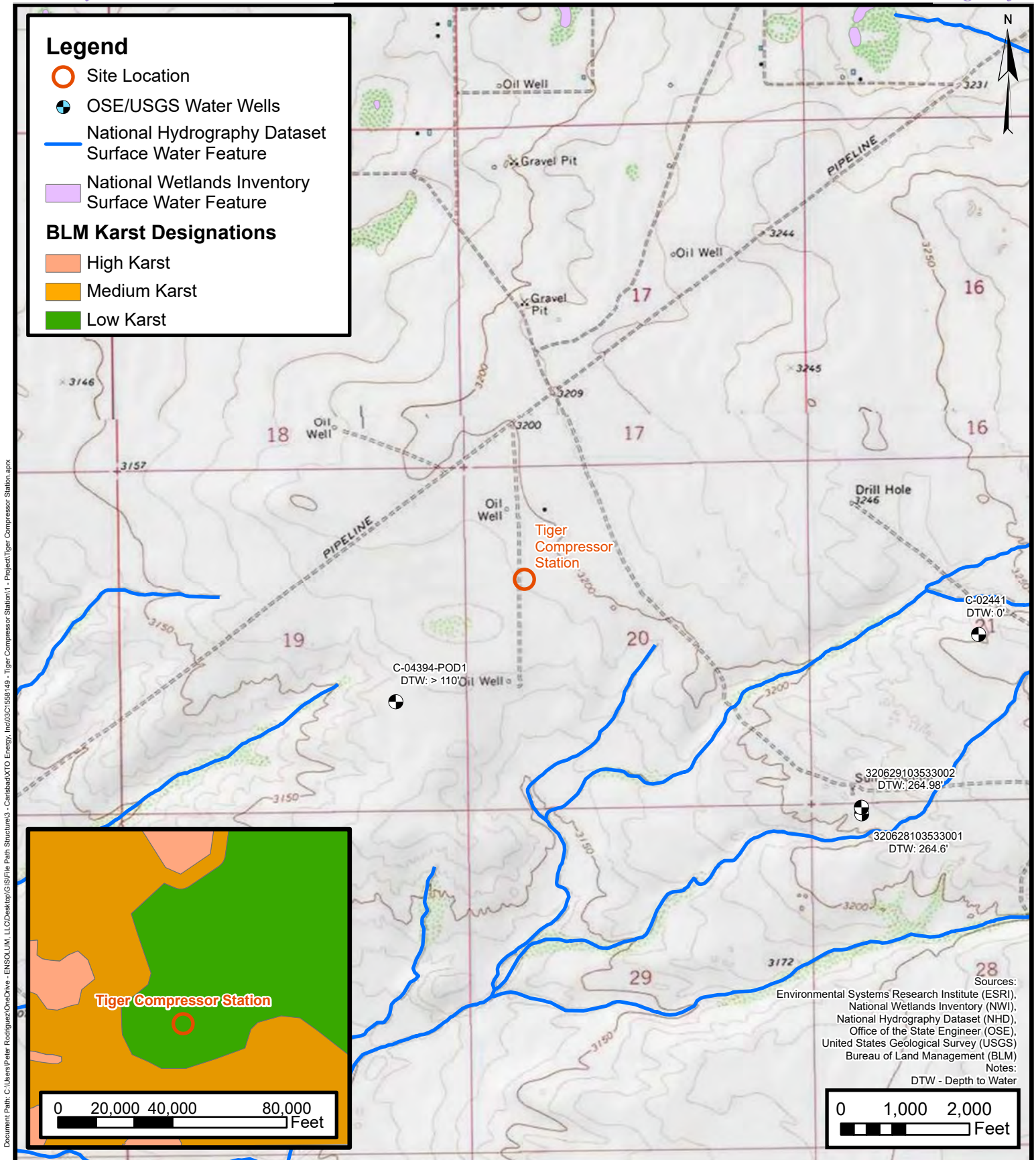
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Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation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



FIGURES



Site Receptor Map

XTO Energy, Inc

Tiger Compressor Station

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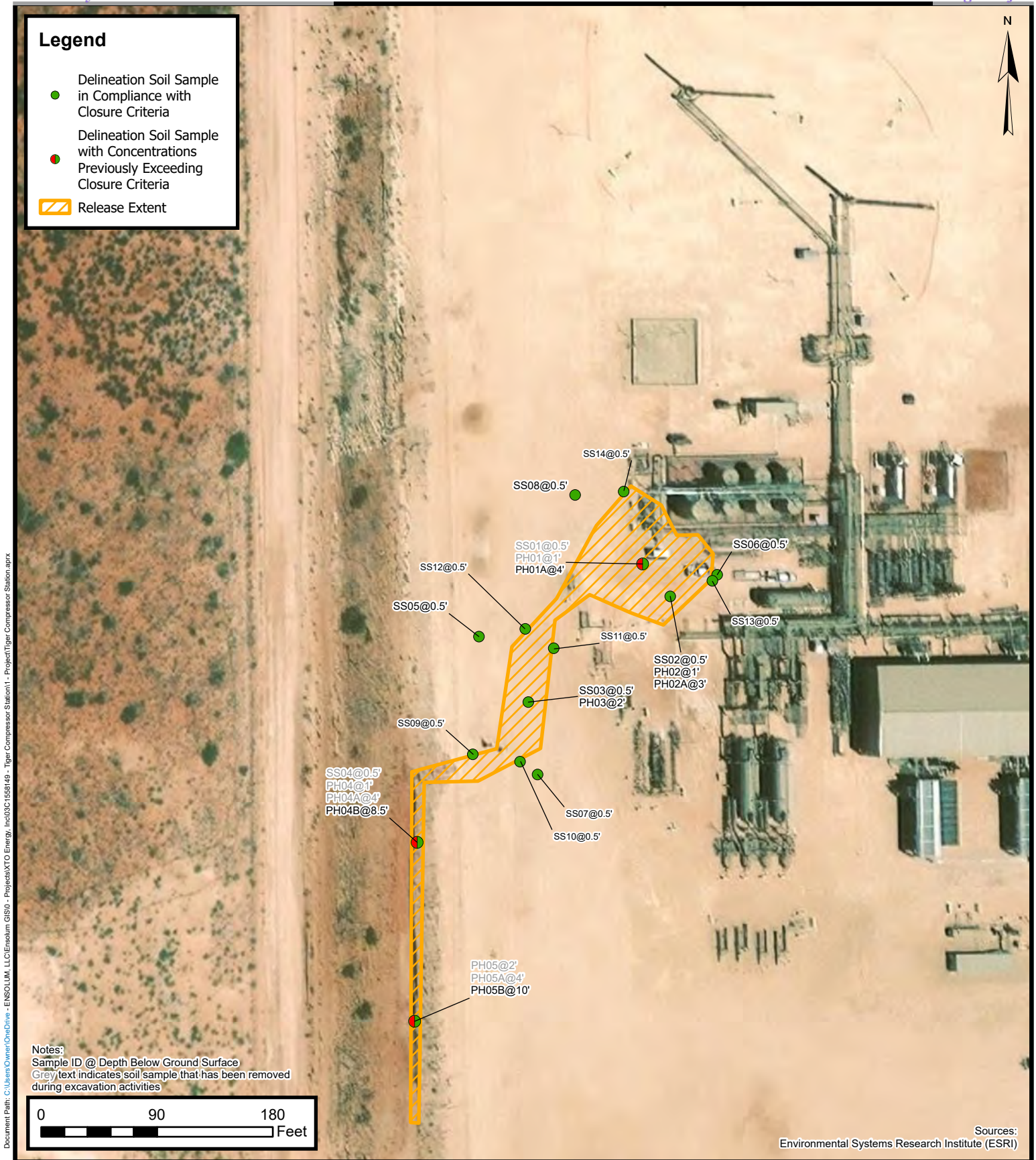
Unit E Sec 20 T25S R30E

Eddy County, New Mexico

FIGURE

1

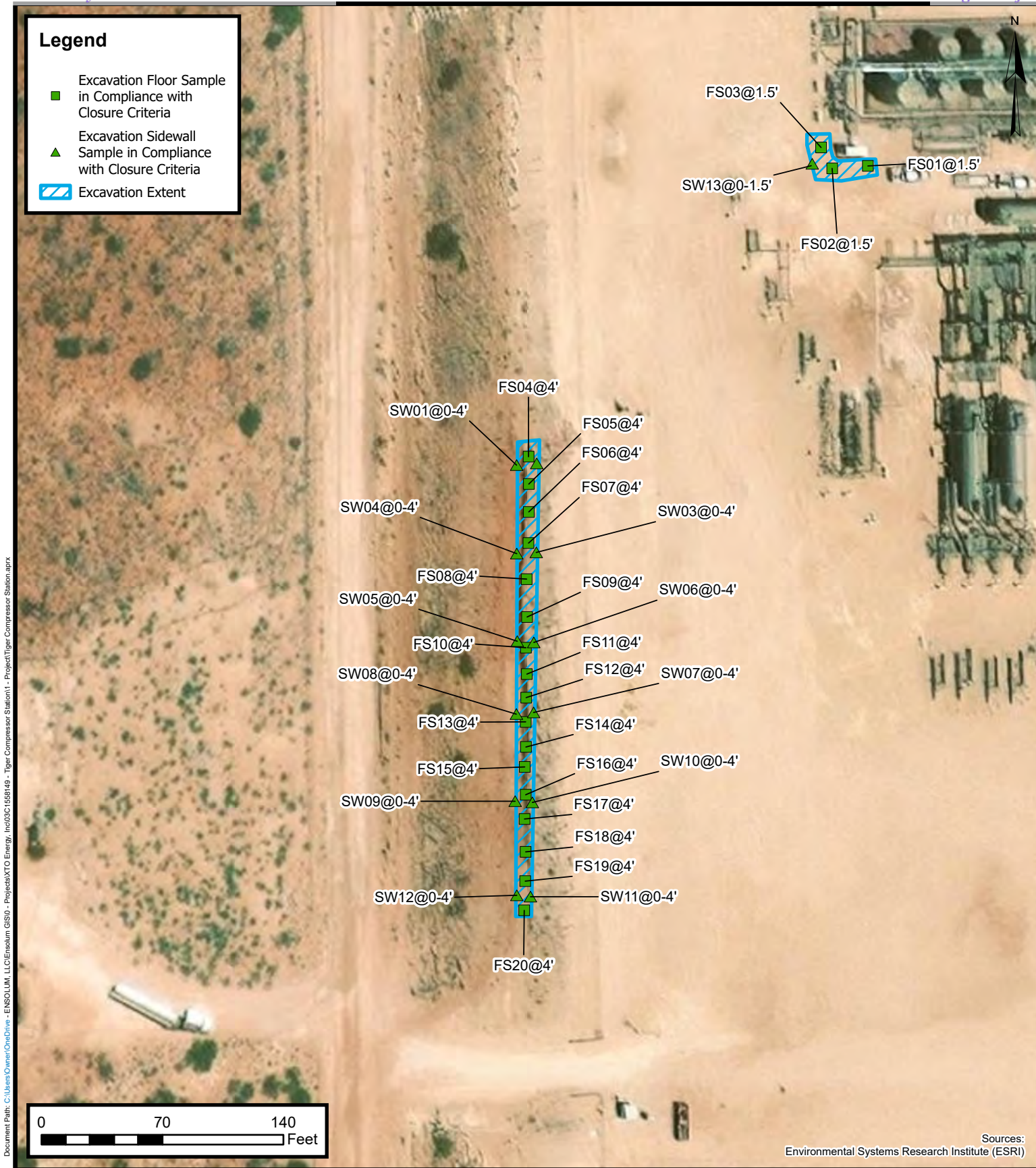




Delineation Soil Sample Locations

XTO Energy, Inc
 Tiger Compressor Station
 Incident Number: NAPP2235638568
 Unit E Sec 20 T25S R30E
 Eddy County, New Mexico

FIGURE
 2



Excavation Soil Sample Locations

XTO Energy, Inc
Tiger Compressor Station
Incident Number: NAPP2235638568
Unit E Sec 20 T25S R30E
Eddy County, New Mexico

FIGURE
3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
TIGER COMPRESSOR STATION
XTO ENERGY, INC
EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	01/13/2023	0.5	3.09	213	6,540	75.5	<49.9	6,620	6,620	387
PH01	02/02/2023	1	<0.00200	<0.00401	<49.9	69.3	<49.9	69.3	69.3	267
PH01A	02/02/2023	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	179
SS02	01/13/2023	0.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	45.3
PH02	02/02/2023	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	490
PH02A	02/02/2023	3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	394
SS03	01/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	100
PH03	02/02/2023	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	319
SS04	01/13/2023	0.5	0.230	67.9	1,560	<49.8	<49.8	1,560	1,560	<4.98
PH04	02/02/2023	1	0.0353	0.242	148	58.2	<49.9	206.2	206	<5.05
PH04A	02/02/2023	4	<0.00201	0.117	<49.9	<49.9	<49.9	<49.9	<49.9	<4.97
PH04B	02/02/2023	8.5	<0.00201	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7.68
SS05	01/13/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	577
SS06	01/13/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	120
SS07	01/13/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	23.7
SS08	01/13/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	26.4
PH05	02/02/2023	2	0.00454	0.451	1,680	82.8	<49.9	1,760	1,760	6.20
PH05A	02/02/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	56.8
PH05B	2/2/2023	10	<0.00200	<0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	64.8
SS09	2/1/2024	0.5	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	115
SS10	2/1/2024	0.5	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	91.3
SS11	2/1/2024	0.5	<0.00201	<0.00402	<49.7	<49.7	<49.7	<49.7	<49.7	93.5
SS12	2/1/2024	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	328
SS13	2/1/2024	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	414
SS14	2/1/2024	0.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	156



TABLE 1
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TIGER COMPRESSOR STATION
XTO ENERGY, INC
EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
On Pad Confirmation Soil Samples										
FS01	02/03/2023	1.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	394
FS02	02/03/2023	1.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	321
FS03	02/03/2023	1.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	304
SW13	02/21/2024	0-1.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	291
Off Pad Confirmation Soil Samples										
FS04	03/03/2023	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	69.0
FS05	03/03/2023	4	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	50.9
FS06	03/03/2023	4	<0.00198	0.0255	<50.0	<50.0	<50.0	<50.0	<50.0	68.1
FS07	03/06/2023	4	<0.00200	0.104	<49.9	<49.9	<49.9	<49.9	<49.9	64.8
FS08	03/06/2023	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	77.2
FS09	03/06/2023	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	69.2
FS10	03/06/2023	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	98.6
FS11	03/06/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	73.1
FS12	03/06/2023	4	<0.00199	0.00448	<49.9	<49.9	<49.9	<49.9	<49.9	91.2
FS13	03/06/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	74.9
FS14	03/06/2023	4	<0.00200	0.00490	<49.9	<49.9	<49.9	<49.9	<49.9	92.5
FS15	03/06/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	80.2
FS16	03/06/2023	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	62.1
FS17	03/06/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	79.8
FS18	03/06/2023	4	<0.00199	0.00897	<49.9	<49.9	<49.9	<49.9	<49.9	87.9
FS19	03/06/2023	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	101
FS20	03/06/2023	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	71.9
SW01	03/03/2023	0-4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	52.6
SW02	03/03/2023	0-4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	82.8
SW03	03/03/2023	0-4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	111
SW04	03/03/2023	0-4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	66.6
SW05	03/06/2023	0-4	<0.00200	0.0226	<49.9	<49.9	<49.9	<49.9	<49.9	59.3
SW06	03/06/2023	0-4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	149
SW07	03/06/2023	0-4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	154
SW08	03/06/2023	0-4	<0.00200	0.00691	<49.9	<49.9	<49.9	<49.9	<49.9	149
SW09	03/06/2023	0-4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	135



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
TIGER COMPRESSOR STATION
XTO ENERGY, INC
EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW10	03/06/2023	0-4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	121
SW11	03/06/2023	0-4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	117
SW12	03/06/2023	0-4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	129

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
NMAC: New Mexico Administrative Code
Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation					Identifier: MWD1 C 4394		Date: 2/4/2020	
LITHOLOGIC / SOIL SAMPLING LOG					Project Name: PLU 423		RP Number: ZRP-3790	
Lat/Long:					Field Screening: CHLORIDES, PID		Logged By: FS	
Hole Diameter: 4" / 6"					Method: SONIC		Total Depth: 110'	
Comments: No sampling, lithology remarks only								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					1			hydrovac excavated (refusal @ 1')
					2			2.5' SAND, dry, well graded, coarse-fine graind,
					3		SW-S	light brwn - tan, no stain, no odor
					4			5' few silty sand pockets, reddish brwn, no plas, non cohesive
					5			
					6			
					7		SP	6' SAND, dry, poorly graded, light brwn - brwn, fine - very fine
					8			2.5-4 9-12
					9			7.5' some mod consol ss
					10		SW-S	light brwn - brwn, sub rounded
					11			10' abundant ss 10-11' color change
					12			12' ss gravel? absent tan-off white
					13		SP	16' abundant ss gravel 13' back t/ (mod consol) light brwn - brown
					14			19' abundant - some
					15			21.5' sandstone, light, abundant brwn-tan, dry, mod well consolidated
					16		SW-S	
					17			23' sandstone chunks absent
					18			
					19			
					20			
					21			
					22			
					23			
					24			
					25			

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MW01 C 4394	Date: 2/4/2020					
		Project Name: PLU 423	RP Number: 2RP-2674 2RP-3790					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS	Method: SONIC					
Lat/Long:		Field Screening: CHLORIDES, PID	Hole Diameter: 4 1/8"					
			Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
					26			
					27			
D			Z		28		SP	27.5' SAND, dry, light brown-tan, poorly graded, fine-very fine grey-grey
					29			30' trace light brown-tan caliche pebbles (gravel), rounded
			Z		30			
					31			31' caliche pebbles absent
			Z		32			
					33			31.5' color change light brown-reddish brown
			Z		34			
					35			33-34' abundant ss chunks, mod consol
M			Z		36			35' ss chunks absent
					37		SW-S	
			Z		38			36' some clay pockets, reddish brown, few pebbles, rounded-subrounded, grey-light grey, few laminations w/ clay, caliche, dolomite
					39			
			Z		40			
					41			
			Z		42			42.5' clay laminations, trace, reddish brown
					43			
			Z		44			44' color change, light brown-tan, SILTY sand
					45			
			Z		46		SP-SM	44.5' some SILTY sand, light brown-tan, no plasticity, non cohesive, trace high plas clay nodules, reddish brown
					47			
			Z		48			
					49			48.5' low plas clay band, orange (35-40 mm)
D					50			49.5' faint yellow band, (15-20 mm)

 rig adding
 water

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MW01 C 4394	Date: 2/4/2020					
		Project Name: PLU 423	RP Number: ZRP-3790					
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS	Method: sonic					
Lat/Long:	Field Screening: CHLORIDES, PH	Hole Diameter: 4" / 6"	Total Depth: 110'					
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
U			Z		51		SP	51.5' trace, high plas clay nodules
U			Z		52			
U			Z		53			53-54' some silty ss, poorly consolidated
M			Z		54			
M			Z		55			55.5' color change tan-grey band (30mm)
M			Z		56			
M			Z		57			59.5' SILTY sand, light
M			Z		58			brwn-brwn, moist,
M			Z		59			no plas, non cohesive,
M			Z		60		SM	no stain
U			Z		61			62' more consolidated
M			Z		62			64' dark brwn color
U			Z		63		sm-s	change, silty clay nodules
M			Z		64			66' pockets of silty
M			Z		65			clay brwn-green
U			Z		66			68' low plas clay pockets
M			Z		67			some, few low plas
M			Z		68			clay laminations
U			Z		69			
M			Z		70			71' SILTY sand, dry,
U			Z		71			no plas, non cohesive,
M			Z		72		SM	light brwn-tan
U			Z		73			74' trace caliche pebbles,
M			Z		74			light grey-grey
					75			

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MWDI C 4394	Date: 2/4/2020					
Project Name: PLU 423		RP Number: 2RP-3790						
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: FS, BB	Method: sonic					
Lat/Long:		Field Screening: CHLORIDES, PID	Hole Diameter: 6 1/4"					
Total Depth: 110'		Comments:						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			N		76		SM	76.5' trace low plas clay nodules, reddish brown
D			N		77			
D			N		78			82' CLAYSTONE, moist, brown-greenish grey, low plasticity, cohesive, no stain, no odor, mod consolidated
D			N		79			
D			N		80			
D			N		81			85' SILTY sand, dry, light brown - brown, no plas, non cohesive, no stain, no odor
D			N		82		CL-S	
D			N		83			
D			N		84			
D			N		85		SM	87' color change tan - off white
D			N		86			88' light brown - brown
D			N		87		SM-S	
D			N		88			87' SILTSTONE, dry, w/ clay pockets, low plas
D			N		89			
D			N		90			
D			N		91			91' abundant clay pockets
D			N		92			94.5' band yellow low plas clay
D			N		93			
D			N		94		SM	
D			N		95		CH	end @ 95' 2/4/2020
M			N		96			2/5/20
M			N		97			95'-101' CLAY, moist, brown - dark brown, high plasticity, cohesive, some tan clay laminations, no stain, no odor.
D			N		98			
M			N		99			98'-99' tan fine grain sandstone stringer.
M			N		100			

 LT Environmental, Inc. 508 West Stevens Street Carlsbad, New Mexico 88220 Compliance · Engineering · Remediation		Identifier: MWOF 4394	Date: 2/5/2020
		Project Name: PLU 423	RP Number: 2RP-3790
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: BP	Method: Sonic
Lat/Long:		Field Screening: CHLORIDES, PID.	Hole Diameter: 6" / 4"
Comments:		Total Depth: 110'	

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D			N		101		CH SP-S	101' - 105' SANDSTONE, tan-light brown, dry, moderately consolidated, calcareous cemented, poorly graded, no stain, no odor.
D			N		102			
D			N		103			
D			N		104			
M			N		105		CH	105' - 110' CLAY, moist, dark brown - brown, high plasticity, cohesive, tan fine sand laminations, no stain, no odor.
D			N		106			
D			N		107			
M			N		108			107' - 109' tan - light brown well consolidated fine green sandstone stringer.
			N		109			
					110			
					111		TD @ 110'	TD @ 110'
					112			
					113			
					114			
					115			
					116			
					117			
					118			
					119			
					120			
					121			
					122			
					123			
					124			
					125			



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USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 320629103533002

Minimum number of levels = 1

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

USGS 320629103533002 25S.30E.21.33342 A

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°06'29", Longitude 103°53'30" NAD27

Land-surface elevation 3,209 feet above NAVD88

The depth of the well is 280 feet below land surface.

This well is completed in the Pecos River Basin alluvial aquifer (N100PCSRVR) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

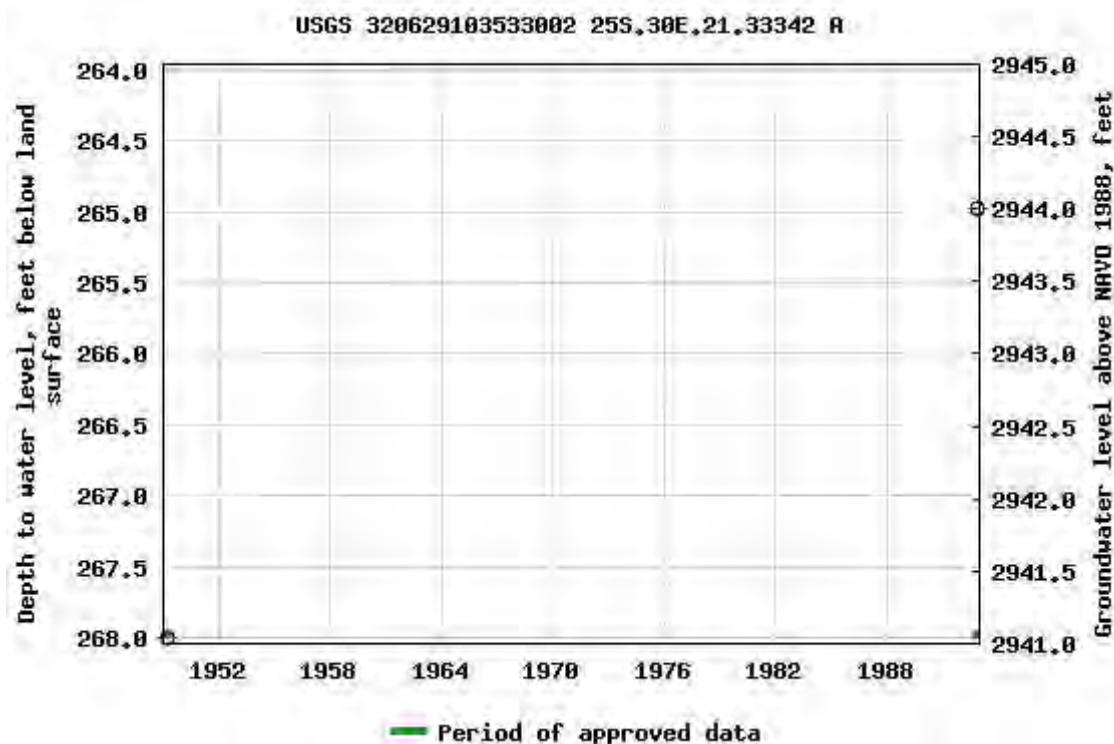
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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>

Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-03-17 14:58:20 EDT

0.68 0.57 nadww01





APPENDIX B

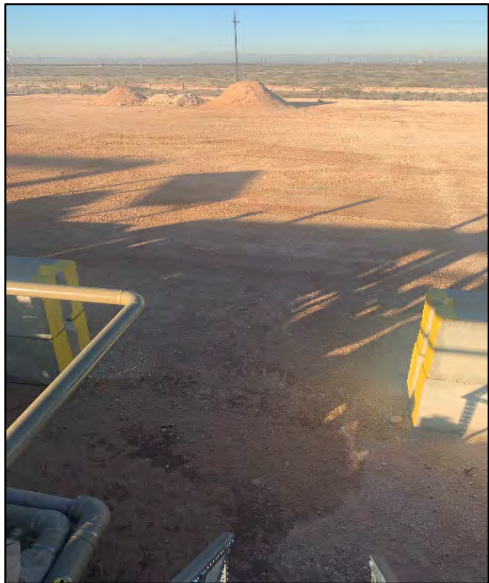
Photographic Log

**Photographic Log**

XTO Energy, Inc

Tiger Compressor Station

Incident Number NAPP2235638568



Photograph: 1 Date: 12/17/2022
Description: Soil staining in release footprint on pad
View: West



Photograph: 2 Date: 12/17/2022
Description: Soil staining in release footprint into pasture
View: Southwest



Photograph: 3 Date: 2/3/2023
Description: Final excavation extent on pad
View: North



Photograph: 4 Date: 3/6/2023
Description: Final excavation extent in the pasture
View: West

**Photographic Log**

XTO Energy, Inc

Tiger Compressor Station

Incident Number NAPP2235638568



Photograph: 5 Date: 8/8/2023
Description: Backfilled excavation off pad in pasture
View: North



Photograph: 6 Date: 8/8/2023
Description: Backfilled excavation on pad
View: East



Photograph: 7 Date: 8/8/2023
Description: Backfilled excavation on pad
View: North



Photograph: 8 Date: 2/21/2024
Description: Sidewall sampling on pad
View: Northeast



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01		Date: 2/2/2023	
								Site Name: Tiger Compressor Station			
								Incident Number: NAPP223563868			
								Job Number: 03C1558149			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Hydrovac	
Coordinates: 32.11807, -103.90896								Hole Diameter: NA		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	408	3,134	N	SS01	0.5	0.5	CCHE	0-3' CALICHE, medium brown mixed with sand, sub-rounded grains, poorly sorted, no stain, slight odor, moist			
M	212.8	49.3	N	PH01	1	1					
M	453.6	11.6	N			2					
M	173.6	11.8	N			3	SP				
M	257.6	1.7	N	PH01A	4	4		3-4' SAND, medium/dark brown, poorly sorted, sub-rounded grains, no staining, no odor, moist			
							TD	Total Depth at 4'			

								Sample Name: PH02		Date: 2/2/2023	
								Site Name: Tiger Compressor Station			
								Incident Number: NAPP223563868			
								Job Number: 03C1558149			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: MR		Method: Hydrovac	
Coordinates: 32.11807, -103.90896								Hole Diameter: NA		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	<168	0	N	SS02	0.5	0	CCHE	0-1' CALICHE, medium brown mixed with sand sub-rounded grains, poorly sorted, no stain, no odor, dry			
M	632.8	0.5	N	PH02	1	1	SP	1-3' SAND, mixed with some caliche, med/ dark brown, poorly sorted, no odor, no staining, moist			
M	453.6	1.0	N			2					
M	347.2	1.4	N	PH02A	3	3					
							TD	Total Depth at 3'			

		Sample Name: PH03		Date: 2/2/2023				
		Site Name: Tiger Compressor Station						
		Incident Number: NAPP223563868						
		Job Number: 03C1558149						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.11807, -103.90896				Logged By: MR		Method: Backhoe		
				Hole Diameter: NA		Total Depth: 2'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	<168	0	N	SS03	0.5	0	CCHE	0-1' CALICHE, medium brown mixed with sand sub-rounded grains, poorly sorted, no stain, no odor, dry
M	173.6	0.1	N			0.5		
						1		1-2' CALICHE, medium brown mixed with sand, sub-rounded grains, poorly sorted, no stain, no odor, moist
M	212.8	0.2	N	PH03	2	2		
							TD	Total Depth at 2'

		Sample Name: PH04		Date: 2/2/2023				
		Site Name: Tiger Compressor Station						
		Incident Number: NAPP223563868						
		Job Number: 03C1558149						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.11807, -103.90896				Logged By: MR		Method: Backhoe		
				Hole Diameter: NA		Total Depth: 8.5'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-4' SAND, dark red mixed with silt, poorly sorted, very strong odor, no staining, moist
M	<168	2,338	N	SS04	0.5	0.5		
M	<173.6	1481	N	PH04	1	1		
						2		
M	<173.6	1447	N					
M	<173.6	1484	N			3		
						4		
M	<173.6	194.3	N	PH04A	4	4	SP	4-5' SAND, dark red with some caliche mixed, poorly sorted, some odor, no staining, moist
						5	CCHE	5-6' CALICHE, white, poorly sorted, sub-rounded grains, slight odor, no staining, dry
D	<173.6	234.7	N			6	CCHE	6-8.5' CALICHE, white/pink, poorly sorted, sub-rounded grains, no odor, no staining, dry
						7		
						8		8' sample possibly contaminated with soil from sidewall of pothole
D	<173.6	242.8	N					
D	<173.6	15	N	PH04B	8.5	8.5		
							TD	Total Depth at 8.5'

		Sample Name: PH05		Date: 2/2/2023				
		Site Name: Tiger Compressor Station						
		Incident Number: NAPP223563868						
		Job Number: 03C1558149						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.11807, -103.90896				Logged By: MR		Method: Backhoe		
				Hole Diameter: NA		Total Depth: 8.5'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% error factor is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0	SP	0-4' SAND, dark red mixed with silt, poorly sorted, very strong odor, no staining, moist
M	173.6	1493	N			1		
M	<173.6	1519	N	PH05	2	2		
M	<173.6	1436	N			3		
D	212.8	47.6	N	PH05A	4	4	CCHE	4-10' CALICHE, white, with some sand, poorly sorted, slight odor, no staining, dry
						5		
D	173.6	77.9	N			6		
						7		
D	<173.6	51.1	N			8		
						9		
D	<173.6	6.8	N	PH05B	10	10	CCHE	10' CALICHE, white/pink, poorly sorted, no odor, no staining, dry
							TD	Total Depth at 10'



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 1/27/2023 11:28:28 AM

JOB DESCRIPTION

Tiger Compressor Station
SDG NUMBER 03C1558149

JOB NUMBER

890-3866-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
1/27/2023 11:28:28 AM

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

Client: Ensolum
Project/Site: Tiger Compressor Station

Laboratory Job ID: 890-3866-1
SDG: 03C1558149

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Definitions/Glossary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD 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
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Definitions/Glossary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count

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

Case Narrative

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Job ID: 890-3866-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-3866-1**

Receipt

The samples were received on 1/16/2023 8:46 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 4.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-3866-1), SS02 (890-3866-2), SS03 (890-3866-3), SS04 (890-3866-4), SS05 (890-3866-5), SS06 (890-3866-6), SS07 (890-3866-7) and SS08 (890-3866-8).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-3866-1), SS04 (890-3866-4), SS05 (890-3866-5), (LCS 880-44333/1-A) and (LCSD 880-44333/2-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-44333 and analytical batch 880-44315 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike (MS) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44333 and analytical batch 880-44315 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

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

GC Semi VOA

Method 8015MOD_NM: The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 880-44321 and analytical batch 880-44517 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Gasoline Range Organics (GRO)-C6-C10 in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-44765 and analytical batch 880-44809 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-44245 and analytical batch 880-44498 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS01

Lab Sample ID: 890-3866-1

Date Collected: 01/13/23 11:15

Matrix: Solid

Date Received: 01/16/23 08:46

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3.09	*-	0.200	mg/Kg	-	01/19/23 12:58	01/20/23 05:23	100
Toluene	49.8		1.99	mg/Kg		01/23/23 13:40	01/24/23 04:19	1000
Ethylbenzene	19.2		0.200	mg/Kg		01/19/23 12:58	01/20/23 05:23	100
m-Xylene & p-Xylene	114		3.98	mg/Kg		01/23/23 13:40	01/24/23 04:19	1000
o-Xylene	26.8		1.99	mg/Kg		01/23/23 13:40	01/24/23 04:19	1000
Xylenes, Total	141		3.98	mg/Kg		01/23/23 13:40	01/24/23 04:19	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130	01/19/23 12:58	01/20/23 05:23	100
1,4-Difluorobenzene (Surr)	145	S1+	70 - 130	01/19/23 12:58	01/20/23 05:23	100

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	213		3.98	mg/Kg	-		01/20/23 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6620		49.9	mg/Kg	-		01/23/23 16:57	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	6540	*1	250	mg/Kg	-	01/25/23 16:30	01/26/23 18:46	5
Diesel Range Organics (Over C10-C28)	75.5		49.9	mg/Kg		01/19/23 11:50	01/23/23 13:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	01/19/23 11:50	01/23/23 13:07	1
o-Terphenyl	86		70 - 130	01/19/23 11:50	01/23/23 13:07	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	387		5.03	mg/Kg	-		01/20/23 19:05	1

Client Sample ID: SS02

Lab Sample ID: 890-3866-2

Date Collected: 01/13/23 11:20

Matrix: Solid

Date Received: 01/16/23 08:46

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	-	01/19/23 12:58	01/20/23 01:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/20/23 01:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/20/23 01:18	1
m-Xylene & p-Xylene	<0.00399	U +	0.00399	mg/Kg		01/19/23 12:58	01/20/23 01:18	1
o-Xylene	<0.00200	U +	0.00200	mg/Kg		01/19/23 12:58	01/20/23 01:18	1
Xylenes, Total	<0.00399	U +	0.00399	mg/Kg		01/19/23 12:58	01/20/23 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	01/19/23 12:58	01/20/23 01:18	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS02

Lab Sample ID: 890-3866-2

Date Collected: 01/13/23 11:20

Matrix: Solid

Date Received: 01/16/23 08:46

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	74		70 - 130	01/19/23 12:58	01/20/23 01:18	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			01/20/23 14:02	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			01/23/23 16:57	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 *1	49.8	mg/Kg		01/19/23 11:50	01/23/23 15:00	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		01/19/23 11:50	01/23/23 15:00	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		01/19/23 11:50	01/23/23 15:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			01/19/23 11:50	01/23/23 15:00	1
o-Terphenyl	86		70 - 130			01/19/23 11:50	01/23/23 15:00	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.3	F1	5.04	mg/Kg			01/20/23 19:11	1

Client Sample ID: SS03

Lab Sample ID: 890-3866-3

Date Collected: 01/13/23 11:40

Matrix: Solid

Date Received: 01/16/23 08:46

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		01/19/23 12:58	01/20/23 02:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 12:58	01/20/23 02:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 12:58	01/20/23 02:40	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398	mg/Kg		01/19/23 12:58	01/20/23 02:40	1
o-Xylene	<0.00199	U **	0.00199	mg/Kg		01/19/23 12:58	01/20/23 02:40	1
Xylenes, Total	<0.00398	U **	0.00398	mg/Kg		01/19/23 12:58	01/20/23 02:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	01/19/23 12:58	01/20/23 02:40	1
1,4-Difluorobenzene (Surr)	76		70 - 130	01/19/23 12:58	01/20/23 02:40	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			01/20/23 14:02	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			01/23/23 16:57	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS03
Date Collected: 01/13/23 11:40
Date Received: 01/16/23 08:46
Sample Depth: 0.5

Lab Sample ID: 890-3866-3
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	<49.9	U *1	49.9	mg/Kg	-	01/19/23 11:50	01/23/23 15:23	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	01/19/23 11:50	01/23/23 15:23	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	01/19/23 11:50	01/23/23 15:23	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	100		70 - 130			01/19/23 11:50	01/23/23 15:23	1	
o-Terphenyl	86		70 - 130			01/19/23 11:50	01/23/23 15:23	1	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	100		4.99	mg/Kg	-		01/20/23 19:28	1	

Client Sample ID: SS04
Date Collected: 01/13/23 11:55
Date Received: 01/16/23 08:46
Sample Depth: 0.5

Lab Sample ID: 890-3866-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	0.230	*-	0.199	mg/Kg	-	01/19/23 12:58	01/20/23 05:44	100	
Toluene	6.94		0.199	mg/Kg	-	01/19/23 12:58	01/20/23 05:44	100	
Ethylbenzene	5.59		0.199	mg/Kg	-	01/19/23 12:58	01/20/23 05:44	100	
m-Xylene & p-Xylene	44.8		3.99	mg/Kg	-	01/23/23 13:40	01/24/23 04:40	1000	
o-Xylene	10.3		2.00	mg/Kg	-	01/23/23 13:40	01/24/23 04:40	1000	
Xylenes, Total	30.1	*+	0.398	mg/Kg	-	01/19/23 12:58	01/20/23 05:44	100	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130			01/19/23 12:58	01/20/23 05:44	100	
1,4-Difluorobenzene (Surr)	119		70 - 130			01/19/23 12:58	01/20/23 05:44	100	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	67.9		3.99	mg/Kg	-		01/20/23 14:02	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	1560		49.8	mg/Kg	-		01/23/23 16:57	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	1560	*1	49.8	mg/Kg	-	01/19/23 11:50	01/23/23 15:46	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	-	01/19/23 11:50	01/23/23 15:46	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	-	01/19/23 11:50	01/23/23 15:46	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	90		70 - 130			01/19/23 11:50	01/23/23 15:46	1	
o-Terphenyl	83		70 - 130			01/19/23 11:50	01/23/23 15:46	1	

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS04

Lab Sample ID: 890-3866-4

Date Collected: 01/13/23 11:55

Matrix: Solid

Date Received: 01/16/23 08:46

Sample Depth: 0.5

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			01/20/23 19:34	1

Client Sample ID: SS05

Lab Sample ID: 890-3866-5

Date Collected: 01/13/23 12:10

Matrix: Solid

Date Received: 01/16/23 08:46

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		01/19/23 12:58	01/20/23 03:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/20/23 03:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/20/23 03:00	1
m-Xylene & p-Xylene	<0.00399	U **	0.00399	mg/Kg		01/19/23 12:58	01/20/23 03:00	1
o-Xylene	<0.00200	U **	0.00200	mg/Kg		01/19/23 12:58	01/20/23 03:00	1
Xylenes, Total	<0.00399	U **	0.00399	mg/Kg		01/19/23 12:58	01/20/23 03:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			01/19/23 12:58	01/20/23 03:00	1
1,4-Difluorobenzene (Surr)	79		70 - 130			01/19/23 12:58	01/20/23 03:00	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			01/20/23 14:02	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			01/23/23 16:57	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 *1	49.9	mg/Kg		01/19/23 11:50	01/23/23 16:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 16:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/19/23 11:50	01/23/23 16:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			01/19/23 11:50	01/23/23 16:09	1
o-Terphenyl	86		70 - 130			01/19/23 11:50	01/23/23 16:09	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	577		5.00	mg/Kg			01/20/23 19:52	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS06

Lab Sample ID: 890-3866-6

Date Collected: 01/13/23 12:20

Matrix: Solid

Date Received: 01/16/23 08:46

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		01/19/23 12:58	01/20/23 03:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/19/23 12:58	01/20/23 03:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/19/23 12:58	01/20/23 03:21	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402	mg/Kg		01/19/23 12:58	01/20/23 03:21	1
o-Xylene	<0.00201	U **	0.00201	mg/Kg		01/19/23 12:58	01/20/23 03:21	1
Xylenes, Total	<0.00402	U **	0.00402	mg/Kg		01/19/23 12:58	01/20/23 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	01/19/23 12:58	01/20/23 03:21	1
1,4-Difluorobenzene (Surr)	79		70 - 130	01/19/23 12:58	01/20/23 03:21	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			01/20/23 14:02	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			01/24/23 14:41	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 *1	50.0	mg/Kg		01/19/23 11:50	01/23/23 16:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 16:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	01/19/23 11:50	01/23/23 16:33	1
o-Terphenyl	82		70 - 130	01/19/23 11:50	01/23/23 16:33	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		4.95	mg/Kg			01/20/23 19:58	1

Client Sample ID: SS07

Lab Sample ID: 890-3866-7

Date Collected: 01/13/23 12:55

Matrix: Solid

Date Received: 01/16/23 08:46

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		01/19/23 12:58	01/20/23 03:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/20/23 03:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/20/23 03:41	1
m-Xylene & p-Xylene	<0.00401	U **	0.00401	mg/Kg		01/19/23 12:58	01/20/23 03:41	1
o-Xylene	<0.00200	U **	0.00200	mg/Kg		01/19/23 12:58	01/20/23 03:41	1
Xylenes, Total	<0.00401	U **	0.00401	mg/Kg		01/19/23 12:58	01/20/23 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	01/19/23 12:58	01/20/23 03:41	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS07

Lab Sample ID: 890-3866-7

Date Collected: 01/13/23 12:55

Matrix: Solid

Date Received: 01/16/23 08:46

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	01/19/23 12:58	01/20/23 03:41	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			01/20/23 14:02	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			01/24/23 14:41	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 *1	50.0	mg/Kg		01/19/23 11:50	01/23/23 16:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 16:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 16:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			01/19/23 11:50	01/23/23 16:56	1
o-Terphenyl	81		70 - 130			01/19/23 11:50	01/23/23 16:56	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		5.02	mg/Kg			01/20/23 20:03	1

Client Sample ID: SS08

Lab Sample ID: 890-3866-8

Date Collected: 01/13/23 13:30

Matrix: Solid

Date Received: 01/16/23 08:46

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		01/19/23 12:58	01/20/23 04:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/19/23 12:58	01/20/23 04:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/19/23 12:58	01/20/23 04:02	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398	mg/Kg		01/19/23 12:58	01/20/23 04:02	1
o-Xylene	<0.00199	U **	0.00199	mg/Kg		01/19/23 12:58	01/20/23 04:02	1
Xylenes, Total	<0.00398	U **	0.00398	mg/Kg		01/19/23 12:58	01/20/23 04:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	01/19/23 12:58	01/20/23 04:02	1
1,4-Difluorobenzene (Surr)	84		70 - 130	01/19/23 12:58	01/20/23 04:02	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			01/20/23 14:02	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			01/24/23 14:41	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS08
Date Collected: 01/13/23 13:30
Date Received: 01/16/23 08:46
Sample Depth: 0.5

Lab Sample ID: 890-3866-8
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	<50.0	U *1	50.0	mg/Kg		01/19/23 11:50	01/23/23 17:19	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 17:19	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 17:19	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	103		70 - 130			01/19/23 11:50	01/23/23 17:19	1	
o-Terphenyl	88		70 - 130			01/19/23 11:50	01/23/23 17:19	1	

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	26.4		4.97	mg/Kg			01/20/23 20:09	1	

Surrogate Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

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)
880-23964-A-1-C MS	Matrix Spike	101	112
880-23964-A-1-D MSD	Matrix Spike Duplicate	110	109
890-3865-A-1-E MS	Matrix Spike	120	99
890-3865-A-1-F MSD	Matrix Spike Duplicate	122	90
890-3866-1	SS01	141 S1+	145 S1+
890-3866-2	SS02	129	74
890-3866-3	SS03	126	76
890-3866-4	SS04	174 S1+	119
890-3866-5	SS05	135 S1+	79
890-3866-6	SS06	123	79
890-3866-7	SS07	98	85
890-3866-8	SS08	110	84
LCS 880-44333/1-A	Lab Control Sample	137 S1+	93
LCS 880-44570/1-A	Lab Control Sample	95	110
LCSD 880-44333/2-A	Lab Control Sample Dup	165 S1+	110
LCSD 880-44570/2-A	Lab Control Sample Dup	91	112
MB 880-44233/5-A	Method Blank	86	89
MB 880-44333/5-A	Method Blank	87	86
MB 880-44534/5-A	Method Blank	100	112
MB 880-44570/5-A	Method Blank	96	109
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)
880-24055-A-12-D MS	Matrix Spike	98	87
880-24055-A-12-E MSD	Matrix Spike Duplicate	100	89
890-3866-1	SS01	106	86
890-3866-1 MS	SS01	123	84
890-3866-1 MSD	SS01	123	87
890-3866-2	SS02	97	86
890-3866-3	SS03	100	86
890-3866-4	SS04	90	83
890-3866-5	SS05	95	86
890-3866-6	SS06	92	82
890-3866-7	SS07	94	81
890-3866-8	SS08	103	88
LCS 880-44321/2-A	Lab Control Sample	106	98
LCS 880-44765/2-A	Lab Control Sample	156 S1+	157 S1+
LCSD 880-44321/3-A	Lab Control Sample Dup	98	92
LCSD 880-44765/3-A	Lab Control Sample Dup	130	129
MB 880-44321/1-A	Method Blank	109	104
MB 880-44765/1-A	Method Blank	135 S1+	135 S1+
Surrogate Legend			

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Surrogate Summary

Client: Ensolum
Project/Site: Tiger Compressor Station
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

Job ID: 890-3866-1
SDG: 03C1558149

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

QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-44233/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 44315						Prep Batch: 44233		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/18/23 10:19	01/19/23 11:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/18/23 10:19	01/19/23 11:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/18/23 10:19	01/19/23 11:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/18/23 10:19	01/19/23 11:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/18/23 10:19	01/19/23 11:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/18/23 10:19	01/19/23 11:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130			01/18/23 10:19	01/19/23 11:18	1
1,4-Difluorobenzene (Surr)	89		70 - 130			01/18/23 10:19	01/19/23 11:18	1

Lab Sample ID: MB 880-44333/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 44315						Prep Batch: 44333		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/19/23 21:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/19/23 21:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/19/23 21:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/19/23 12:58	01/19/23 21:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/19/23 12:58	01/19/23 21:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/19/23 12:58	01/19/23 21:53	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			01/19/23 12:58	01/19/23 21:53	1
1,4-Difluorobenzene (Surr)	86		70 - 130			01/19/23 12:58	01/19/23 21:53	1

Lab Sample ID: LCS 880-44333/1-A						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 44315						Prep Batch: 44333		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.06882	*-	mg/Kg		69	70 - 130	
Toluene	0.100	0.09131		mg/Kg		91	70 - 130	
Ethylbenzene	0.100	0.09719		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2212		mg/Kg		111	70 - 130	
o-Xylene	0.100	0.1242		mg/Kg		124	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130					
1,4-Difluorobenzene (Surr)	93		70 - 130					

Lab Sample ID: LCSD 880-44333/2-A						Client Sample ID: Lab Control Sample Dup		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 44315						Prep Batch: 44333		
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene	0.100	0.08647		mg/Kg		86	70 - 130	23 35

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

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

Lab Sample ID: LCSD 880-44333/2-A

Matrix: Solid

Analysis Batch: 44315

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44333

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.1174		mg/Kg		117	70 - 130	25		35
Ethylbenzene	0.100	0.1280		mg/Kg		128	70 - 130	27		35
m-Xylene & p-Xylene	0.200	0.2911	*+	mg/Kg		146	70 - 130	27		35
o-Xylene	0.100	0.1638	*+	mg/Kg		164	70 - 130	28		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	165	S1+	70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 890-3865-A-1-E MS

Matrix: Solid

Analysis Batch: 44315

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44333

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00200	U F2 F1 *	0.0998	0.07474		mg/Kg		75	70 - 130	
Toluene	<0.00200	U F2 F1	0.0998	0.07789		mg/Kg		78	70 - 130	
Ethylbenzene	<0.00200	U F2 F1	0.0998	0.07101		mg/Kg		71	70 - 130	
m-Xylene & p-Xylene	<0.00401	U *+ F2	0.200	0.1430		mg/Kg		72	70 - 130	
o-Xylene	<0.00200	U *+ F2 F1	0.0998	0.08377		mg/Kg		84	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 890-3865-A-1-F MSD

Matrix: Solid

Analysis Batch: 44315

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44333

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.00200	U F2 F1 *	0.101	0.03198	F2 F1	mg/Kg		32	70 - 130	80		35
Toluene	<0.00200	U F2 F1	0.101	0.04712	F2 F1	mg/Kg		47	70 - 130	49		35
Ethylbenzene	<0.00200	U F2 F1	0.101	0.04000	F2 F1	mg/Kg		40	70 - 130	56		35
m-Xylene & p-Xylene	<0.00401	U *+ F2	0.202	0.07735	F2 F1	mg/Kg		38	70 - 130	60		35
o-Xylene	<0.00200	U *+ F2 F1	0.101	0.05148	F2 F1	mg/Kg		51	70 - 130	48		35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: MB 880-44534/5-A

Matrix: Solid

Analysis Batch: 44511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44534

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier							
Benzene	<0.00200	U	0.00200	mg/Kg		01/23/23 10:55	01/23/23 13:29		1

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

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

Lab Sample ID: MB 880-44534/5-A

Matrix: Solid

Analysis Batch: 44511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44534

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Toluene	<0.00200	U	0.00200	mg/Kg		01/23/23 10:55	01/23/23 13:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/23/23 10:55	01/23/23 13:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/23/23 10:55	01/23/23 13:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/23/23 10:55	01/23/23 13:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/23/23 10:55	01/23/23 13:29	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	100		70 - 130	01/23/23 10:55	01/23/23 13:29	1
1,4-Difluorobenzene (Surr)	112		70 - 130	01/23/23 10:55	01/23/23 13:29	1

Lab Sample ID: MB 880-44570/5-A

Matrix: Solid

Analysis Batch: 44511

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44570

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		01/23/23 13:40	01/24/23 01:07	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/23/23 13:40	01/24/23 01:07	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/23/23 13:40	01/24/23 01:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/23/23 13:40	01/24/23 01:07	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/23/23 13:40	01/24/23 01:07	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/23/23 13:40	01/24/23 01:07	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	96		70 - 130	01/23/23 13:40	01/24/23 01:07	1
1,4-Difluorobenzene (Surr)	109		70 - 130	01/23/23 13:40	01/24/23 01:07	1

Lab Sample ID: LCS 880-44570/1-A

Matrix: Solid

Analysis Batch: 44511

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09508		mg/Kg		95	70 - 130
Toluene	0.100	0.08901		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.08811		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1813		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08770		mg/Kg		88	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-44570/2-A

Matrix: Solid

Analysis Batch: 44511

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44570

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09431		mg/Kg		94	70 - 130	1	35
Toluene	0.100	0.09129		mg/Kg		91	70 - 130	3	35

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

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

Lab Sample ID: LCSD 880-44570/2-A

Matrix: Solid

Analysis Batch: 44511

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44570

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Ethylbenzene	0.100	0.08861		mg/Kg		89	70 - 130	1		35
m-Xylene & p-Xylene	0.200	0.1824		mg/Kg		91	70 - 130	1		35
o-Xylene	0.100	0.08829		mg/Kg		88	70 - 130	1		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	91		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-23964-A-1-C MS

Matrix: Solid

Analysis Batch: 44511

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00199	U F2 F1	0.100	0.09319		mg/Kg		93	70 - 130	
Toluene	<0.00199	U F1	0.100	0.06382	F1	mg/Kg		64	70 - 130	
Ethylbenzene	<0.00199	U F1	0.100	0.06863	F1	mg/Kg		68	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1304	F1	mg/Kg		65	70 - 130	
o-Xylene	<0.00199	U F1	0.100	0.07859		mg/Kg		78	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-23964-A-1-D MSD

Matrix: Solid

Analysis Batch: 44511

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.00199	U F2 F1	0.0996	0.06368	F2 F1	mg/Kg		64	70 - 130	38		35
Toluene	<0.00199	U F1	0.0996	0.04906	F1	mg/Kg		49	70 - 130	26		35
Ethylbenzene	<0.00199	U F1	0.0996	0.05437	F1	mg/Kg		55	70 - 130	23		35
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.1062	F1	mg/Kg		53	70 - 130	20		35
o-Xylene	<0.00199	U F1	0.0996	0.06751	F1	mg/Kg		68	70 - 130	15		35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

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

Lab Sample ID: MB 880-44321/1-A

Matrix: Solid

Analysis Batch: 44517

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44321

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 10:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 10:22	1

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

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

Lab Sample ID: MB 880-44321/1-A
Matrix: Solid
Analysis Batch: 44517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 44321

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/19/23 11:50	01/23/23 10:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			01/19/23 11:50	01/23/23 10:22	1
o-Terphenyl	104		70 - 130			01/19/23 11:50	01/23/23 10:22	1

Lab Sample ID: LCS 880-44321/2-A
Matrix: Solid
Analysis Batch: 44517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 44321

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	936.4		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1113		mg/Kg		111	70 - 130
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	106		70 - 130				
o-Terphenyl	98		70 - 130				

Lab Sample ID: LCSD 880-44321/3-A
Matrix: Solid
Analysis Batch: 44517

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 44321

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	717.4	*1	mg/Kg		72	70 - 130	26	20
Diesel Range Organics (Over C10-C28)	1000	1061		mg/Kg		106	70 - 130	5	20
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	98		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: 890-3866-1 MS
Matrix: Solid
Analysis Batch: 44517

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 44321

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	75.5		998	917.4		mg/Kg		84	70 - 130
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	123		70 - 130						
o-Terphenyl	84		70 - 130						

QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

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

Lab Sample ID: 890-3866-1 MSD

Matrix: Solid

Analysis Batch: 44517

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 44321

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	75.5		997	923.3		mg/Kg		85	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	123		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: MB 880-44765/1-A

Matrix: Solid

Analysis Batch: 44809

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44765

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/25/23 16:30	01/26/23 10:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/25/23 16:30	01/26/23 10:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/25/23 16:30	01/26/23 10:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130			01/25/23 16:30	01/26/23 10:34	1
o-Terphenyl	135	S1+	70 - 130			01/25/23 16:30	01/26/23 10:34	1

Lab Sample ID: LCS 880-44765/2-A

Matrix: Solid

Analysis Batch: 44809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	999	1134		mg/Kg		114	70 - 130
Diesel Range Organics (Over C10-C28)	999	1232		mg/Kg		123	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	156	S1+	70 - 130				
o-Terphenyl	157	S1+	70 - 130				

Lab Sample ID: LCSD 880-44765/3-A

Matrix: Solid

Analysis Batch: 44809

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44765

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	999	896.2	*1	mg/Kg		90	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	999	1423	*+	mg/Kg		142	70 - 130	14	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	130		70 - 130						
o-Terphenyl	129		70 - 130						

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

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

Lab Sample ID: 880-24055-A-12-D MS

Matrix: Solid

Analysis Batch: 44809

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 44765

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	1000	1293		mg/Kg		127	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U *+	1000	1144		mg/Kg		114	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	98		70 - 130								
o-Terphenyl	87		70 - 130								

Lab Sample ID: 880-24055-A-12-E MSD

Matrix: Solid

Analysis Batch: 44809

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 44765

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	998	1204		mg/Kg		118	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<50.0	U *+	998	1163		mg/Kg		117	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	89		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-44245/1-A

Matrix: Solid

Analysis Batch: 44498

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Chloride	<5.00	U	5.00	mg/Kg			01/20/23 17:31	1

Lab Sample ID: LCS 880-44245/2-A

Matrix: Solid

Analysis Batch: 44498

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 880-44245/3-A

Matrix: Solid

Analysis Batch: 44498

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec	RPD	RPD
							Limits		Limits
Chloride	250	254.7		mg/Kg		102	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-3866-2 MS										Client Sample ID: SS02		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 44498												
	Sample	Sample	Spike	MS	MS				%Rec			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	45.3	F1	252	338.4	F1	mg/Kg		116	90 - 110			

Lab Sample ID: 890-3866-2 MSD										Client Sample ID: SS02		
Matrix: Solid										Prep Type: Soluble		
Analysis Batch: 44498												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	45.3	F1	252	339.5	F1	mg/Kg		117	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

GC VOA

Prep Batch: 44233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44233/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 44315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	8021B	44333
890-3866-2	SS02	Total/NA	Solid	8021B	44333
890-3866-3	SS03	Total/NA	Solid	8021B	44333
890-3866-4	SS04	Total/NA	Solid	8021B	44333
890-3866-5	SS05	Total/NA	Solid	8021B	44333
890-3866-6	SS06	Total/NA	Solid	8021B	44333
890-3866-7	SS07	Total/NA	Solid	8021B	44333
890-3866-8	SS08	Total/NA	Solid	8021B	44333
MB 880-44233/5-A	Method Blank	Total/NA	Solid	8021B	44233
MB 880-44333/5-A	Method Blank	Total/NA	Solid	8021B	44333
LCS 880-44333/1-A	Lab Control Sample	Total/NA	Solid	8021B	44333
LCSD 880-44333/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44333
890-3865-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	44333
890-3865-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44333

Prep Batch: 44333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	5035	
890-3866-2	SS02	Total/NA	Solid	5035	
890-3866-3	SS03	Total/NA	Solid	5035	
890-3866-4	SS04	Total/NA	Solid	5035	
890-3866-5	SS05	Total/NA	Solid	5035	
890-3866-6	SS06	Total/NA	Solid	5035	
890-3866-7	SS07	Total/NA	Solid	5035	
890-3866-8	SS08	Total/NA	Solid	5035	
MB 880-44333/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44333/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44333/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3865-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-3865-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 44473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	Total BTEX	
890-3866-2	SS02	Total/NA	Solid	Total BTEX	
890-3866-3	SS03	Total/NA	Solid	Total BTEX	
890-3866-4	SS04	Total/NA	Solid	Total BTEX	
890-3866-5	SS05	Total/NA	Solid	Total BTEX	
890-3866-6	SS06	Total/NA	Solid	Total BTEX	
890-3866-7	SS07	Total/NA	Solid	Total BTEX	
890-3866-8	SS08	Total/NA	Solid	Total BTEX	

Analysis Batch: 44511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	8021B	44570
890-3866-4	SS04	Total/NA	Solid	8021B	44570
MB 880-44534/5-A	Method Blank	Total/NA	Solid	8021B	44534

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

GC VOA (Continued)

Analysis Batch: 44511 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44570/5-A	Method Blank	Total/NA	Solid	8021B	44570
LCS 880-44570/1-A	Lab Control Sample	Total/NA	Solid	8021B	44570
LCSD 880-44570/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	44570
880-23964-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	44570
880-23964-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	44570

Prep Batch: 44534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-44534/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 44570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	5035	
890-3866-4	SS04	Total/NA	Solid	5035	
MB 880-44570/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-44570/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-44570/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-23964-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-23964-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 44321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	8015NM Prep	
890-3866-2	SS02	Total/NA	Solid	8015NM Prep	
890-3866-3	SS03	Total/NA	Solid	8015NM Prep	
890-3866-4	SS04	Total/NA	Solid	8015NM Prep	
890-3866-5	SS05	Total/NA	Solid	8015NM Prep	
890-3866-6	SS06	Total/NA	Solid	8015NM Prep	
890-3866-7	SS07	Total/NA	Solid	8015NM Prep	
890-3866-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-44321/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44321/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44321/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3866-1 MS	SS01	Total/NA	Solid	8015NM Prep	
890-3866-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	8015B NM	44321
890-3866-2	SS02	Total/NA	Solid	8015B NM	44321
890-3866-3	SS03	Total/NA	Solid	8015B NM	44321
890-3866-4	SS04	Total/NA	Solid	8015B NM	44321
890-3866-5	SS05	Total/NA	Solid	8015B NM	44321
890-3866-6	SS06	Total/NA	Solid	8015B NM	44321
890-3866-7	SS07	Total/NA	Solid	8015B NM	44321
890-3866-8	SS08	Total/NA	Solid	8015B NM	44321
MB 880-44321/1-A	Method Blank	Total/NA	Solid	8015B NM	44321
LCS 880-44321/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44321
LCSD 880-44321/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44321

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

GC Semi VOA (Continued)

Analysis Batch: 44517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1 MS	SS01	Total/NA	Solid	8015B NM	44321
890-3866-1 MSD	SS01	Total/NA	Solid	8015B NM	44321

Analysis Batch: 44597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	8015 NM	
890-3866-2	SS02	Total/NA	Solid	8015 NM	
890-3866-3	SS03	Total/NA	Solid	8015 NM	
890-3866-4	SS04	Total/NA	Solid	8015 NM	
890-3866-5	SS05	Total/NA	Solid	8015 NM	
890-3866-6	SS06	Total/NA	Solid	8015 NM	
890-3866-7	SS07	Total/NA	Solid	8015 NM	
890-3866-8	SS08	Total/NA	Solid	8015 NM	

Prep Batch: 44765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	8015NM Prep	
MB 880-44765/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-44765/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-44765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24055-A-12-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24055-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 44809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Total/NA	Solid	8015B NM	44765
MB 880-44765/1-A	Method Blank	Total/NA	Solid	8015B NM	44765
LCS 880-44765/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	44765
LCSD 880-44765/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	44765
880-24055-A-12-D MS	Matrix Spike	Total/NA	Solid	8015B NM	44765
880-24055-A-12-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	44765

HPLC/IC

Leach Batch: 44245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Soluble	Solid	DI Leach	
890-3866-2	SS02	Soluble	Solid	DI Leach	
890-3866-3	SS03	Soluble	Solid	DI Leach	
890-3866-4	SS04	Soluble	Solid	DI Leach	
890-3866-5	SS05	Soluble	Solid	DI Leach	
890-3866-6	SS06	Soluble	Solid	DI Leach	
890-3866-7	SS07	Soluble	Solid	DI Leach	
890-3866-8	SS08	Soluble	Solid	DI Leach	
MB 880-44245/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-44245/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-44245/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3866-2 MS	SS02	Soluble	Solid	DI Leach	
890-3866-2 MSD	SS02	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

HPLC/IC

Analysis Batch: 44498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3866-1	SS01	Soluble	Solid	300.0	44245
890-3866-2	SS02	Soluble	Solid	300.0	44245
890-3866-3	SS03	Soluble	Solid	300.0	44245
890-3866-4	SS04	Soluble	Solid	300.0	44245
890-3866-5	SS05	Soluble	Solid	300.0	44245
890-3866-6	SS06	Soluble	Solid	300.0	44245
890-3866-7	SS07	Soluble	Solid	300.0	44245
890-3866-8	SS08	Soluble	Solid	300.0	44245
MB 880-44245/1-A	Method Blank	Soluble	Solid	300.0	44245
LCS 880-44245/2-A	Lab Control Sample	Soluble	Solid	300.0	44245
LCSD 880-44245/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	44245
890-3866-2 MS	SS02	Soluble	Solid	300.0	44245
890-3866-2 MSD	SS02	Soluble	Solid	300.0	44245

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS01
Date Collected: 01/13/23 11:15
Date Received: 01/16/23 08:46

Lab Sample ID: 890-3866-1
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	44570	01/23/23 13:40	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	44511	01/24/23 04:19	MNR	EET MID
Total/NA	Prep	5035			4.99 g	5 mL	44333	01/19/23 12:58	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	44315	01/20/23 05:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44473	01/20/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			44597	01/23/23 16:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 13:07	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44765	01/25/23 16:30	DM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	44809	01/26/23 18:46	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 19:05	CH	EET MID

Client Sample ID: SS02
Date Collected: 01/13/23 11:20
Date Received: 01/16/23 08:46

Lab Sample ID: 890-3866-2
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			5.01 g	5 mL	44333	01/19/23 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44315	01/20/23 01:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44473	01/20/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			44597	01/23/23 16:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 15:00	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 19:11	CH	EET MID

Client Sample ID: SS03
Date Collected: 01/13/23 11:40
Date Received: 01/16/23 08:46

Lab Sample ID: 890-3866-3
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			5.02 g	5 mL	44333	01/19/23 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44315	01/20/23 02:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44473	01/20/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			44597	01/23/23 16:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 15:23	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 19:28	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS04
Date Collected: 01/13/23 11:55
Date Received: 01/16/23 08:46

Lab Sample ID: 890-3866-4
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			5.01 g	5 mL	44570	01/23/23 13:40	MNR	EET MID
Total/NA	Analysis	8021B		1000	5 mL	5 mL	44511	01/24/23 04:40	MNR	EET MID
Total/NA	Prep	5035			5.03 g	5 mL	44333	01/19/23 12:58	MNR	EET MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	44315	01/20/23 05:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44473	01/20/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			44597	01/23/23 16:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 15:46	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 19:34	CH	EET MID

Client Sample ID: SS05
Date Collected: 01/13/23 12:10
Date Received: 01/16/23 08:46

Lab Sample ID: 890-3866-5
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	44333	01/19/23 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44315	01/20/23 03:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44473	01/20/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			44597	01/23/23 16:57	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 16:09	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 19:52	CH	EET MID

Client Sample ID: SS06
Date Collected: 01/13/23 12:20
Date Received: 01/16/23 08:46

Lab Sample ID: 890-3866-6
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			4.97 g	5 mL	44333	01/19/23 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44315	01/20/23 03:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44473	01/20/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			44597	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 16:33	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 19:58	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Client Sample ID: SS07
Date Collected: 01/13/23 12:55
Date Received: 01/16/23 08:46

Lab Sample ID: 890-3866-7
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			4.99 g	5 mL	44333	01/19/23 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44315	01/20/23 03:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44473	01/20/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			44597	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 16:56	AJ	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 20:03	CH	EET MID

Client Sample ID: SS08
Date Collected: 01/13/23 13:30
Date Received: 01/16/23 08:46

Lab Sample ID: 890-3866-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	44333	01/19/23 12:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	44315	01/20/23 04:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			44473	01/20/23 14:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			44597	01/24/23 14:41	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	44321	01/19/23 11:50	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	44517	01/23/23 17:19	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	44245	01/18/23 11:49	KS	EET MID
Soluble	Analysis	300.0		1			44498	01/20/23 20:09	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: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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Method Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-3866-1
SDG: 03C1558149

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3866-1	SS01	Solid	01/13/23 11:15	01/16/23 08:46	0.5
890-3866-2	SS02	Solid	01/13/23 11:20	01/16/23 08:46	0.5
890-3866-3	SS03	Solid	01/13/23 11:40	01/16/23 08:46	0.5
890-3866-4	SS04	Solid	01/13/23 11:55	01/16/23 08:46	0.5
890-3866-5	SS05	Solid	01/13/23 12:10	01/16/23 08:46	0.5
890-3866-6	SS06	Solid	01/13/23 12:20	01/16/23 08:46	0.5
890-3866-7	SS07	Solid	01/13/23 12:55	01/16/23 08:46	0.5
890-3866-8	SS08	Solid	01/13/23 13:30	01/16/23 08:46	0.5

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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) 986-3199

Chain of Custody

Work Order No:

Page 1 of 1

Project Manager:	Tacona Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.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:

ANALYSIS REQUEST										Preservative Codes	
										None: NO	DI Water: H ₂ O
										Cool: Cool	MeOH: Me
										HCL: HC	HNO ₃ : HN
										H ₂ SO ₄ : H ₂	NaOH: Na
										H ₃ PO ₄ : HP	
										NaHSO ₄ : NABIS	
										Na ₂ S ₂ O ₃ : NaSO ₃	
										Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: SABC	
										Sample Comments	
										Incident ID:	
										nAPP2235638568	
										Cost Center:	
										2027031001	
										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	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed				TCPLP / SPLP	6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U													
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 \$95.00 will be applied to each report and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.																																			
Hg: 1631 / 245.1 / 7470 / 7471																																			

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>C. Little</i>	<i>Sherrill</i>	01/14/2008	<i>Cheryl</i>	1-16-23	546
2					
3					
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5					
6					

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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



Environment Testing

Client Information (Sub Contract Lab)		Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact	Phone	Kramer Jessica			890-1102-1
Shipping/Receiving	E-Mail	Jessica.Kramer@et.eurofins.com	State of Origin		Page 1 of 1
Company	Accreditations Required (See note)	NELAP - Texas	New Mexico		
Eurofins Environment Testing South Cent		Due Date Requested	Job #		
1211 W Florida Ave		1/20/2023	890-3866-1		
City	TAT Requested (days):	Analysis Requested			
Midland					
State Zip					
TX, 79701					
Phone	PO #:				
432-704-5440(Tel)					
Email	WO #:				
Project Name	Project #				
Tiger Compressor Station	89000093				
Site	SSOW#				
Sample Identification - Client ID (Lab ID)					
SS01 (890-3866-1)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=oil, B=bitumen, A=air)	Field Filtered Sample (Yes or No)
SS02 (890-3866-2)	1/13/23	11 15	Solid		Perform MS/MSD (Yes or No)
SS03 (890-3866-3)	1/13/23	11 20	Solid		8015MOD_NM/8015NM_S_Prep (MOD) Full TPH
SS04 (890-3866-4)	1/13/23	11 40	Solid		8015MOD_Calc
SS05 (890-3866-5)	1/13/23	11 55	Solid		300_ORGFM_28D/DI_LEACH Chloride
SS06 (890-3866-6)	1/13/23	12 10	Solid		8021B/5035FP_Calc (MOD) BTEX
SS07 (890-3866-7)	1/13/23	12 20	Solid		Total_BTEX_GCV
SS08 (890-3866-8)	1/13/23	12 55	Solid		
	1/13/23	13 30	Solid		
Special Instructions/Note:					
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/test/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	☐ 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: <i>[Signature]</i>	Date/Time		Received by: <i>[Signature]</i>		
Relinquished by:	Date/Time		Received by:		
Relinquished by:	Date/Time		Received by:		
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3866-1

SDG Number: 03C1558149

Login Number: 3866

List Source: Eurofins Carlsbad

List Number: 1

Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3866-1

SDG Number: 03C1558149

Login Number: 3866

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 01/17/23 11:09 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/14/2023 5:38:30 PM

JOB DESCRIPTION

Tiger Compressor Station
SDG NUMBER 03C1558149

JOB NUMBER

890-4013-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
2/14/2023 5:38:30 PM

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

Client: Ensolum
Project/Site: Tiger Compressor Station

Laboratory Job ID: 890-4013-1
SDG: 03C1558149

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Definitions/Glossary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Qualifiers

GC 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, 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.
F2	MS/MSD 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
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Job ID: 890-4013-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4013-1

Receipt

The samples were received on 2/3/2023 8:32 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: PH01 (890-4013-1), PH01A (890-4013-2), PH02 (890-4013-3), PH02A (890-4013-4), PH03 (890-4013-5), PH04 (890-4013-6), PH04A (890-4013-7), PH04B (890-4013-8), PH05 (890-4013-9), PH05A (890-4013-10) and PH05B (890-4013-11).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-24559-A-1-C). 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 880-45966 and analytical batch 880-45954 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH04 (890-4013-6) and PH04A (890-4013-7). 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: PH04 (890-4013-6), PH04A (890-4013-7) and PH05 (890-4013-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45763 and analytical batch 880-45729 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 surrogate recovery for the blank associated with preparation batch 880-45662 and analytical batch 880-45951 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4008-A-3-C). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH01 (890-4013-1), PH01A (890-4013-2), PH02 (890-4013-3), PH02A (890-4013-4), PH03 (890-4013-5), PH04 (890-4013-6) and (890-4008-A-3-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-45662 and analytical batch 880-45951 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-45662 and analytical batch 880-45951 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

Case Narrative

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Job ID: 890-4013-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

HPLC/IC

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

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH01

Lab Sample ID: 890-4013-1

Date Collected: 02/02/23 12:00

Matrix: Solid

Date Received: 02/03/23 08:32

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		02/10/23 10:30	02/11/23 08:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:30	02/11/23 08:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:30	02/11/23 08:23	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/10/23 10:30	02/11/23 08:23	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:30	02/11/23 08:23	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/10/23 10:30	02/11/23 08:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	02/10/23 10:30	02/11/23 08:23	1
1,4-Difluorobenzene (Surr)	109		70 - 130	02/10/23 10:30	02/11/23 08:23	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			02/13/23 18:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	69.3		49.9	mg/Kg			02/13/23 17:08	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 *1	49.9	mg/Kg		02/07/23 09:24	02/10/23 22:00	1
Diesel Range Organics (Over C10-C28)	69.3		49.9	mg/Kg		02/07/23 09:24	02/10/23 22:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 09:24	02/10/23 22:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	53	S1-	70 - 130	02/07/23 09:24	02/10/23 22:00	1
o-Terphenyl	61	S1-	70 - 130	02/07/23 09:24	02/10/23 22:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	267		5.05	mg/Kg			02/07/23 15:02	1

Client Sample ID: PH01A

Lab Sample ID: 890-4013-2

Date Collected: 02/02/23 12:15

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 4

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		02/10/23 10:30	02/11/23 08:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:30	02/11/23 08:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:30	02/11/23 08:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/10/23 10:30	02/11/23 08:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:30	02/11/23 08:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/23 10:30	02/11/23 08:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/10/23 10:30	02/11/23 08:43	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH01A

Lab Sample ID: 890-4013-2

Date Collected: 02/02/23 12:15

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	112		70 - 130	02/10/23 10:30	02/11/23 08:43	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			02/13/23 18:42	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			02/13/23 17:08	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 *1	50.0	mg/Kg		02/07/23 09:24	02/10/23 22:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/23 09:24	02/10/23 22:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 09:24	02/10/23 22:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	57	S1-	70 - 130			02/07/23 09:24	02/10/23 22:22	1
o-Terphenyl	63	S1-	70 - 130			02/07/23 09:24	02/10/23 22:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		5.00	mg/Kg			02/07/23 15:16	1

Client Sample ID: PH02

Lab Sample ID: 890-4013-3

Date Collected: 02/02/23 12:55

Matrix: Solid

Date Received: 02/03/23 08:32

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		02/10/23 10:54	02/11/23 03:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:54	02/11/23 03:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:54	02/11/23 03:09	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/10/23 10:54	02/11/23 03:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:54	02/11/23 03:09	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/10/23 10:54	02/11/23 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	02/10/23 10:54	02/11/23 03:09	1
1,4-Difluorobenzene (Surr)	90		70 - 130	02/10/23 10:54	02/11/23 03:09	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			02/13/23 18:49	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			02/13/23 17:08	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH02

Lab Sample ID: 890-4013-3

Date Collected: 02/02/23 12:55

Matrix: Solid

Date Received: 02/03/23 08:32

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 *1	50.0	mg/Kg		02/07/23 09:24	02/10/23 22:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/23 09:24	02/10/23 22:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 09:24	02/10/23 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	51	S1-	70 - 130			02/07/23 09:24	02/10/23 22:44	1
o-Terphenyl	59	S1-	70 - 130			02/07/23 09:24	02/10/23 22:44	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		4.99	mg/Kg			02/07/23 15:20	1

Client Sample ID: PH02A

Lab Sample ID: 890-4013-4

Date Collected: 02/02/23 13:05

Matrix: Solid

Date Received: 02/03/23 08:32

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		02/10/23 10:54	02/11/23 03:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:54	02/11/23 03:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:54	02/11/23 03:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/10/23 10:54	02/11/23 03:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:54	02/11/23 03:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/23 10:54	02/11/23 03:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			02/10/23 10:54	02/11/23 03:35	1
1,4-Difluorobenzene (Surr)	89		70 - 130			02/10/23 10:54	02/11/23 03:35	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			02/13/23 18:49	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			02/13/23 17:08	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 *1	50.0	mg/Kg		02/07/23 09:24	02/10/23 23:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/23 09:24	02/10/23 23:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 09:24	02/10/23 23:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	57	S1-	70 - 130			02/07/23 09:24	02/10/23 23:06	1
o-Terphenyl	62	S1-	70 - 130			02/07/23 09:24	02/10/23 23:06	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH02A

Lab Sample ID: 890-4013-4

Date Collected: 02/02/23 13:05

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	394		4.95	mg/Kg			02/07/23 15:25	1

Client Sample ID: PH03

Lab Sample ID: 890-4013-5

Date Collected: 02/02/23 13:35

Matrix: Solid

Date Received: 02/03/23 08:32

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		02/10/23 10:54	02/11/23 04:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:54	02/11/23 04:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:54	02/11/23 04:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/10/23 10:54	02/11/23 04:02	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/23 10:54	02/11/23 04:02	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/23 10:54	02/11/23 04:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			02/10/23 10:54	02/11/23 04:02	1
1,4-Difluorobenzene (Surr)	94		70 - 130			02/10/23 10:54	02/11/23 04:02	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			02/13/23 18:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/13/23 17:08	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 *1	49.9	mg/Kg		02/07/23 09:24	02/10/23 23:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/07/23 09:24	02/10/23 23:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 09:24	02/10/23 23:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	56	S1-	70 - 130			02/07/23 09:24	02/10/23 23:28	1
o-Terphenyl	61	S1-	70 - 130			02/07/23 09:24	02/10/23 23:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	319		4.97	mg/Kg			02/07/23 15:30	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH04

Lab Sample ID: 890-4013-6

Date Collected: 02/02/23 10:10

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0353		0.0200	mg/Kg		02/10/23 15:23	02/11/23 23:18	10
Toluene	0.0262		0.0200	mg/Kg		02/10/23 15:23	02/11/23 23:18	10
Ethylbenzene	0.0875		0.0200	mg/Kg		02/10/23 15:23	02/11/23 23:18	10
m-Xylene & p-Xylene	0.0931		0.0401	mg/Kg		02/10/23 15:23	02/11/23 23:18	10
o-Xylene	<0.0200	U	0.0200	mg/Kg		02/10/23 15:23	02/11/23 23:18	10
Xylenes, Total	0.0931		0.0401	mg/Kg		02/10/23 15:23	02/11/23 23:18	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	02/10/23 15:23	02/11/23 23:18	10
1,4-Difluorobenzene (Surr)	122		70 - 130	02/10/23 15:23	02/11/23 23:18	10

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.242		0.0401	mg/Kg			02/13/23 19:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	206		49.9	mg/Kg			02/13/23 17:08	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	148	*1	49.9	mg/Kg		02/07/23 09:24	02/10/23 23:49	1
Diesel Range Organics (Over C10-C28)	58.2		49.9	mg/Kg		02/07/23 09:24	02/10/23 23:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/07/23 09:24	02/10/23 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130	02/07/23 09:24	02/10/23 23:49	1
o-Terphenyl	66	S1-	70 - 130	02/07/23 09:24	02/10/23 23:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05	mg/Kg			02/07/23 15:44	1

Client Sample ID: PH04A

Lab Sample ID: 890-4013-7

Date Collected: 02/02/23 10:25

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 4

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		02/10/23 10:54	02/11/23 04:56	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:54	02/11/23 04:56	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:54	02/11/23 04:56	1
m-Xylene & p-Xylene	0.117		0.00398	mg/Kg		02/13/23 15:05	02/14/23 17:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/13/23 15:05	02/14/23 17:16	1
Xylenes, Total	0.117		0.00398	mg/Kg		02/13/23 15:05	02/14/23 17:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	02/10/23 10:54	02/11/23 04:56	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH04A

Lab Sample ID: 890-4013-7

Date Collected: 02/02/23 10:25

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	02/10/23 10:54	02/11/23 04:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.117		0.00398	mg/Kg			02/13/23 18:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/09/23 09:45	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	<49.9	U	49.9	mg/Kg		02/08/23 10:22	02/09/23 02:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/08/23 10:22	02/09/23 02:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/08/23 10:22	02/09/23 02:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			02/08/23 10:22	02/09/23 02:55	1
o-Terphenyl	111		70 - 130			02/08/23 10:22	02/09/23 02:55	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			02/07/23 15:48	1

Client Sample ID: PH04B

Lab Sample ID: 890-4013-8

Date Collected: 02/02/23 12:30

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 8.5

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		02/10/23 10:54	02/11/23 05:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:54	02/11/23 05:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:54	02/11/23 05:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/13/23 15:05	02/14/23 16:36	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:54	02/11/23 05:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/23 15:05	02/14/23 16:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			02/10/23 10:54	02/11/23 05:22	1
1,4-Difluorobenzene (Surr)	94		70 - 130			02/10/23 10:54	02/11/23 05:22	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			02/13/23 18:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/09/23 09:45	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH04B

Lab Sample ID: 890-4013-8

Date Collected: 02/02/23 12:30

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 8.5

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		02/08/23 10:22	02/09/23 03:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/08/23 10:22	02/09/23 03:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/08/23 10:22	02/09/23 03:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			02/08/23 10:22	02/09/23 03:15	1
o-Terphenyl	107		70 - 130			02/08/23 10:22	02/09/23 03:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.68		5.00	mg/Kg			02/07/23 15:53	1

Client Sample ID: PH05

Lab Sample ID: 890-4013-9

Date Collected: 02/02/23 13:55

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00454		0.00200	mg/Kg		02/13/23 15:05	02/14/23 17:37	1
Toluene	0.0986		0.00200	mg/Kg		02/13/23 15:05	02/14/23 17:37	1
Ethylbenzene	0.0576		0.00200	mg/Kg		02/13/23 15:05	02/14/23 17:37	1
m-Xylene & p-Xylene	0.246		0.00399	mg/Kg		02/13/23 15:05	02/14/23 17:37	1
o-Xylene	0.0439		0.00200	mg/Kg		02/13/23 15:05	02/14/23 17:37	1
Xylenes, Total	0.290		0.00399	mg/Kg		02/13/23 15:05	02/14/23 17:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130			02/13/23 15:05	02/14/23 17:37	1
1,4-Difluorobenzene (Surr)	119		70 - 130			02/13/23 15:05	02/14/23 17:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.451		0.00399	mg/Kg			02/14/23 18:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1760		49.9	mg/Kg			02/09/23 09:45	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	1680		49.9	mg/Kg		02/08/23 10:22	02/09/23 03:36	1
Diesel Range Organics (Over C10-C28)	82.8		49.9	mg/Kg		02/08/23 10:22	02/09/23 03:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/08/23 10:22	02/09/23 03:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			02/08/23 10:22	02/09/23 03:36	1
o-Terphenyl	106		70 - 130			02/08/23 10:22	02/09/23 03:36	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH05

Lab Sample ID: 890-4013-9

Date Collected: 02/02/23 13:55

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 2

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.20		4.95	mg/Kg			02/07/23 15:58	1

Client Sample ID: PH05A

Lab Sample ID: 890-4013-10

Date Collected: 02/02/23 14:05

Matrix: Solid

Date Received: 02/03/23 08:32

Sample Depth: 4

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		02/10/23 10:23	02/11/23 05:58	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:23	02/11/23 05:58	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:23	02/11/23 05:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/10/23 10:23	02/11/23 05:58	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/10/23 10:23	02/11/23 05:58	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/10/23 10:23	02/11/23 05:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			02/10/23 10:23	02/11/23 05:58	1
1,4-Difluorobenzene (Surr)	94		70 - 130			02/10/23 10:23	02/11/23 05:58	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			02/13/23 19:09	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			02/09/23 09:45	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		02/08/23 10:22	02/09/23 03:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/09/23 03:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/09/23 03:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130			02/08/23 10:22	02/09/23 03:56	1
o-Terphenyl	104		70 - 130			02/08/23 10:22	02/09/23 03:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.8		4.96	mg/Kg			02/07/23 16:02	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH05B
Date Collected: 02/02/23 14:45
Date Received: 02/03/23 08:32
Sample Depth: 10

Lab Sample ID: 890-4013-11
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	-	02/13/23 11:50	02/14/23 05:41	1	
Toluene	<0.00200	U	0.00200	mg/Kg	-	02/13/23 11:50	02/14/23 05:41	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	-	02/13/23 11:50	02/14/23 05:41	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	-	02/13/23 11:50	02/14/23 05:41	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg	-	02/13/23 11:50	02/14/23 05:41	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	-	02/13/23 11:50	02/14/23 05:41	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	123		70 - 130			02/13/23 11:50	02/14/23 05:41	1	
1,4-Difluorobenzene (Surr)	98		70 - 130			02/13/23 11:50	02/14/23 05:41	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	-		02/14/23 11:13	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	-		02/09/23 09:45	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	<49.8	U	49.8	mg/Kg	-	02/08/23 10:22	02/09/23 04:17	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg	-	02/08/23 10:22	02/09/23 04:17	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg	-	02/08/23 10:22	02/09/23 04:17	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	96		70 - 130			02/08/23 10:22	02/09/23 04:17	1	
o-Terphenyl	104		70 - 130			02/08/23 10:22	02/09/23 04:17	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	64.8		4.98	mg/Kg	-		02/07/23 16:07	1	

Surrogate Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-24559-A-1-A MS	Matrix Spike	88	115
880-24559-A-1-B MSD	Matrix Spike Duplicate	113	97
880-24618-A-21-C MS	Matrix Spike	109	106
880-24618-A-21-D MSD	Matrix Spike Duplicate	112	110
890-4013-1	PH01	117	109
890-4013-2	PH01A	118	112
890-4013-3	PH02	122	90
890-4013-4	PH02A	122	89
890-4013-5	PH03	128	94
890-4013-6	PH04	85	122
890-4013-7	PH04A	135 S1+	94
890-4013-8	PH04B	131 S1+	94
890-4013-9	PH05	147 S1+	119
890-4013-10	PH05A	95	94
890-4013-11	PH05B	123	98
890-4024-A-1-D MS	Matrix Spike	116	106
890-4024-A-1-E MSD	Matrix Spike Duplicate	112	98
890-4068-A-1-D MS	Matrix Spike	107	97
890-4068-A-1-E MSD	Matrix Spike Duplicate	122	103
890-4071-A-4-D MS	Matrix Spike	114	107
890-4071-A-4-E MSD	Matrix Spike Duplicate	112	106
LCS 880-45966/1-A	Lab Control Sample	111	94
LCS 880-45967/1-A	Lab Control Sample	113	114
LCS 880-45983/1-A	Lab Control Sample	123	91
LCS 880-46022/1-A	Lab Control Sample	123	106
LCS 880-46085/1-A	Lab Control Sample	107	108
LCSD 880-45966/2-A	Lab Control Sample Dup	108	102
LCSD 880-45967/2-A	Lab Control Sample Dup	109	109
LCSD 880-45983/2-A	Lab Control Sample Dup	113	105
LCSD 880-46022/2-A	Lab Control Sample Dup	110	100
LCSD 880-46085/2-A	Lab Control Sample Dup	107	108
MB 880-45890/5-A	Method Blank	106	105
MB 880-45957/5-A	Method Blank	72	95
MB 880-45966/5-A	Method Blank	78	93
MB 880-45967/5-A	Method Blank	112	101
MB 880-45983/5-A	Method Blank	83	86
MB 880-46013/5-A	Method Blank	112	105
MB 880-46022/5-A	Method Blank	79	92
MB 880-46085/5-A	Method Blank	110	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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Surrogate Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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)
880-24450-A-14-D MS	Matrix Spike	100	88
880-24450-A-14-E MSD	Matrix Spike Duplicate	113	102
890-4008-A-3-D MS	Matrix Spike	74	71
890-4008-A-3-E MSD	Matrix Spike Duplicate	69 S1-	67 S1-
890-4013-1	PH01	53 S1-	61 S1-
890-4013-2	PH01A	57 S1-	63 S1-
890-4013-3	PH02	51 S1-	59 S1-
890-4013-4	PH02A	57 S1-	62 S1-
890-4013-5	PH03	56 S1-	61 S1-
890-4013-6	PH04	59 S1-	66 S1-
890-4013-7	PH04A	102	111
890-4013-8	PH04B	99	107
890-4013-9	PH05	104	106
890-4013-10	PH05A	95	104
890-4013-11	PH05B	96	104
LCS 880-45662/2-A	Lab Control Sample	117	125
LCS 880-45763/2-A	Lab Control Sample	120	113
LCSD 880-45662/3-A	Lab Control Sample Dup	117	129
LCSD 880-45763/3-A	Lab Control Sample Dup	121	110
MB 880-45662/1-A	Method Blank	68 S1-	81
MB 880-45763/1-A	Method Blank	136 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45890/5-A

Matrix: Solid

Analysis Batch: 45955

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45890

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/09/23 10:23	02/10/23 13:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/09/23 10:23	02/10/23 13:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	02/09/23 10:23	02/10/23 13:42	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/09/23 10:23	02/10/23 13:42	1

Lab Sample ID: MB 880-45957/5-A

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45957

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 08:55	02/10/23 11:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/23 08:55	02/10/23 11:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	02/10/23 08:55	02/10/23 11:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130	02/10/23 08:55	02/10/23 11:27	1

Lab Sample ID: MB 880-45966/5-A

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45966

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:23	02/10/23 22:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/23 10:23	02/10/23 22:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	02/10/23 10:23	02/10/23 22:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/10/23 10:23	02/10/23 22:25	1

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: LCS 880-45966/1-A

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09252		mg/Kg		93	70 - 130
Toluene	0.100	0.08882		mg/Kg		89	70 - 130
Ethylbenzene	0.100	0.09392		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1981		mg/Kg		99	70 - 130
o-Xylene	0.100	0.1039		mg/Kg		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-45966/2-A

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45966

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	19	35
Toluene	0.100	0.1016		mg/Kg		102	70 - 130	13	35
Ethylbenzene	0.100	0.1056		mg/Kg		106	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2195		mg/Kg		110	70 - 130	10	35
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130	7	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-24559-A-1-A MS

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.07380		mg/Kg		74	70 - 130
Toluene	<0.00202	U F1	0.100	0.06681	F1	mg/Kg		66	70 - 130
Ethylbenzene	<0.00202	U F1	0.100	0.06471	F1	mg/Kg		64	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.201	0.1170	F1	mg/Kg		58	70 - 130
o-Xylene	<0.00202	U F1	0.100	0.06982	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: 880-24559-A-1-B MSD

Matrix: Solid

Analysis Batch: 45954

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.09166		mg/Kg		93	70 - 130	22	35
Toluene	<0.00202	U F1	0.0990	0.08122		mg/Kg		82	70 - 130	19	35
Ethylbenzene	<0.00202	U F1	0.0990	0.08147		mg/Kg		82	70 - 130	23	35

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: 880-24559-A-1-B MSD
Matrix: Solid
Analysis Batch: 45954

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 45966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.198	0.1690	F2	mg/Kg		85	70 - 130	36	35
o-Xylene	<0.00202	U F1	0.0990	0.08322		mg/Kg		83	70 - 130	18	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	113		70 - 130								
1,4-Difluorobenzene (Surr)	97		70 - 130								

Lab Sample ID: MB 880-45967/5-A
Matrix: Solid
Analysis Batch: 45955

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45967

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:30	02/11/23 01:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:30	02/11/23 01:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:30	02/11/23 01:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/10/23 10:30	02/11/23 01:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:30	02/11/23 01:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/23 10:30	02/11/23 01:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			02/10/23 10:30	02/11/23 01:18	1
1,4-Difluorobenzene (Surr)	101		70 - 130			02/10/23 10:30	02/11/23 01:18	1

Lab Sample ID: LCS 880-45967/1-A
Matrix: Solid
Analysis Batch: 45955

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08189		mg/Kg		82	70 - 130
Toluene	0.100	0.07537		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.07378		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1574		mg/Kg		79	70 - 130
o-Xylene	0.100	0.07879		mg/Kg		79	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	113		70 - 130				
1,4-Difluorobenzene (Surr)	114		70 - 130				

Lab Sample ID: LCSD 880-45967/2-A
Matrix: Solid
Analysis Batch: 45955

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45967

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08046		mg/Kg		80	70 - 130	2	35
Toluene	0.100	0.07839		mg/Kg		78	70 - 130	4	35
Ethylbenzene	0.100	0.07768		mg/Kg		78	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1671		mg/Kg		84	70 - 130	6	35
o-Xylene	0.100	0.08348		mg/Kg		83	70 - 130	6	35

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-4071-A-4-D MS

Matrix: Solid

Analysis Batch: 45955

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45967

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09962		mg/Kg		99	70 - 130
Toluene	<0.00200	U	0.100	0.09459		mg/Kg		93	70 - 130
Ethylbenzene	0.00240		0.100	0.08686		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1733		mg/Kg		86	70 - 130
o-Xylene	0.00217		0.100	0.08711		mg/Kg		85	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-4071-A-4-E MSD

Matrix: Solid

Analysis Batch: 45955

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45967

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.0990	0.09486		mg/Kg		96	70 - 130	5	35
Toluene	<0.00200	U	0.0990	0.1079		mg/Kg		108	70 - 130	13	35
Ethylbenzene	0.00240		0.0990	0.08352		mg/Kg		82	70 - 130	4	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.1692		mg/Kg		85	70 - 130	2	35
o-Xylene	0.00217		0.0990	0.08258		mg/Kg		81	70 - 130	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-45983/5-A

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45983

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:54	02/10/23 19:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:54	02/10/23 19:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:54	02/10/23 19:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/10/23 10:54	02/10/23 19:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 10:54	02/10/23 19:11	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/23 10:54	02/10/23 19:11	1

	MB	MB						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	83		70 - 130	02/10/23 10:54	02/10/23 19:11	1		
1,4-Difluorobenzene (Surr)	86		70 - 130	02/10/23 10:54	02/10/23 19:11	1		

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: LCS 880-45983/1-A

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1215		mg/Kg		122	70 - 130
Toluene	0.100	0.1250		mg/Kg		125	70 - 130
Ethylbenzene	0.100	0.1261		mg/Kg		126	70 - 130
m-Xylene & p-Xylene	0.200	0.2452		mg/Kg		123	70 - 130
o-Xylene	0.100	0.1222		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: LCSD 880-45983/2-A

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1265		mg/Kg		126	70 - 130	4	35
Toluene	0.100	0.1151		mg/Kg		115	70 - 130	8	35
Ethylbenzene	0.100	0.1152		mg/Kg		115	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2252		mg/Kg		113	70 - 130	8	35
o-Xylene	0.100	0.1121		mg/Kg		112	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-4024-A-1-D MS

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.100	0.1152		mg/Kg		115	70 - 130
Toluene	<0.00202	U	0.100	0.1059		mg/Kg		105	70 - 130
Ethylbenzene	<0.00202	U	0.100	0.1040		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.201	0.2003		mg/Kg		100	70 - 130
o-Xylene	<0.00202	U	0.100	0.1029		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 890-4024-A-1-E MSD

Matrix: Solid

Analysis Batch: 45956

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45983

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.0990	0.1039		mg/Kg		105	70 - 130	10	35
Toluene	<0.00202	U	0.0990	0.09346		mg/Kg		94	70 - 130	12	35
Ethylbenzene	<0.00202	U	0.0990	0.09187		mg/Kg		93	70 - 130	12	35

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: 890-4024-A-1-E MSD
Matrix: Solid
Analysis Batch: 45956

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 45983

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00403	U	0.198	0.1811		mg/Kg		91	70 - 130	10	35
o-Xylene	<0.00202	U	0.0990	0.09097		mg/Kg		92	70 - 130	12	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	112		70 - 130								
1,4-Difluorobenzene (Surr)	98		70 - 130								

Lab Sample ID: MB 880-46013/5-A
Matrix: Solid
Analysis Batch: 46089

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46013

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 14:48	02/13/23 12:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 14:48	02/13/23 12:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 14:48	02/13/23 12:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/10/23 14:48	02/13/23 12:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 14:48	02/13/23 12:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/23 14:48	02/13/23 12:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			02/10/23 14:48	02/13/23 12:02	1
1,4-Difluorobenzene (Surr)	105		70 - 130			02/10/23 14:48	02/13/23 12:02	1

Lab Sample ID: MB 880-46022/5-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46022

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 15:23	02/11/23 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/10/23 15:23	02/11/23 15:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/23 15:23	02/11/23 15:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130			02/10/23 15:23	02/11/23 15:47	1
1,4-Difluorobenzene (Surr)	92		70 - 130			02/10/23 15:23	02/11/23 15:47	1

Lab Sample ID: LCS 880-46022/1-A
Matrix: Solid
Analysis Batch: 46060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09910		mg/Kg		99	70 - 130
Toluene	0.100	0.09313		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1011		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: LCS 880-46022/1-A

Matrix: Solid

Analysis Batch: 46060

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46022

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1107		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-46022/2-A

Matrix: Solid

Analysis Batch: 46060

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46022

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1111		mg/Kg		111	70 - 130	11	35
Toluene	0.100	0.1077		mg/Kg		108	70 - 130	14	35
Ethylbenzene	0.100	0.1076		mg/Kg		108	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2306		mg/Kg		115	70 - 130	4	35
o-Xylene	0.100	0.1143		mg/Kg		114	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-4068-A-1-D MS

Matrix: Solid

Analysis Batch: 46060

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46022

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U F2 F1	0.101	0.1077		mg/Kg		107	70 - 130
Toluene	<0.00202	U F2 F1	0.101	0.1040		mg/Kg		103	70 - 130
Ethylbenzene	<0.00202	U F2 F1	0.101	0.1030		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.202	0.2182		mg/Kg		108	70 - 130
o-Xylene	<0.00202	U F2 F1	0.101	0.1077		mg/Kg		107	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-4068-A-1-E MSD

Matrix: Solid

Analysis Batch: 46060

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46022

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F2 F1	0.0996	0.1041		mg/Kg		105	70 - 130	3	35
Toluene	<0.00202	U F2 F1	0.0996	0.1037		mg/Kg		104	70 - 130	0	35
Ethylbenzene	<0.00202	U F2 F1	0.0996	0.1126		mg/Kg		113	70 - 130	9	35
m-Xylene & p-Xylene	<0.00403	U F2 F1	0.199	0.2436		mg/Kg		122	70 - 130	11	35
o-Xylene	<0.00202	U F2 F1	0.0996	0.1207		mg/Kg		121	70 - 130	11	35

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: 890-4068-A-1-E MSD

Matrix: Solid

Analysis Batch: 46060

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46022

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-46085/5-A

Matrix: Solid

Analysis Batch: 46089

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46085

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/13/23 11:50	02/13/23 23:38	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/23 11:50	02/13/23 23:38	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/13/23 11:50	02/13/23 23:38	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/13/23 11:50	02/13/23 23:38	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/13/23 11:50	02/13/23 23:38	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/13/23 11:50	02/13/23 23:38	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			02/13/23 11:50	02/13/23 23:38	1	
1,4-Difluorobenzene (Surr)	105		70 - 130			02/13/23 11:50	02/13/23 23:38	1	

Lab Sample ID: LCS 880-46085/1-A

Matrix: Solid

Analysis Batch: 46089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 46085

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09515		mg/Kg		95	70 - 130		
Toluene	0.100	0.08997		mg/Kg		90	70 - 130		
Ethylbenzene	0.100	0.09006		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene	0.200	0.1873		mg/Kg		94	70 - 130		
o-Xylene	0.100	0.09144		mg/Kg		91	70 - 130		
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	107		70 - 130						
1,4-Difluorobenzene (Surr)	108		70 - 130						

Lab Sample ID: LCSD 880-46085/2-A

Matrix: Solid

Analysis Batch: 46089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46085

	Spike	LCSD	LCSD					%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09442		mg/Kg		94	70 - 130	1	35	
Toluene	0.100	0.09166		mg/Kg		92	70 - 130	2	35	
Ethylbenzene	0.100	0.09050		mg/Kg		90	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.1904		mg/Kg		95	70 - 130	2	35	
o-Xylene	0.100	0.09389		mg/Kg		94	70 - 130	3	35	
	LCSD	LCSD								
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	107		70 - 130							

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: LCSD 880-46085/2-A

Matrix: Solid

Analysis Batch: 46089

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 46085

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

Lab Sample ID: 880-24618-A-21-C MS

Matrix: Solid

Analysis Batch: 46089

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46085

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00201	U	0.100	0.08589		mg/Kg		86	70 - 130
Toluene	<0.00201	U	0.100	0.08314		mg/Kg		83	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.08043		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1684		mg/Kg		84	70 - 130
o-Xylene	<0.00201	U	0.100	0.08165		mg/Kg		81	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-24618-A-21-D MSD

Matrix: Solid

Analysis Batch: 46089

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 46085

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.08721		mg/Kg		88	70 - 130	2	35
Toluene	<0.00201	U	0.0990	0.08413		mg/Kg		85	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.0990	0.08051		mg/Kg		81	70 - 130	0	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1686		mg/Kg		85	70 - 130	0	35
o-Xylene	<0.00201	U	0.0990	0.08128		mg/Kg		82	70 - 130	0	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

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

Lab Sample ID: MB 880-45662/1-A

Matrix: Solid

Analysis Batch: 45951

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45662

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/07/23 09:24	02/10/23 19:28		1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/07/23 09:24	02/10/23 19:28		1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 09:24	02/10/23 19:28		1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac		
1-Chlorooctane	68	S1-	70 - 130	02/07/23 09:24	02/10/23 19:28		1		
o-Terphenyl	81		70 - 130	02/07/23 09:24	02/10/23 19:28		1		

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: LCS 880-45662/2-A
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1172		mg/Kg		117	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1011		mg/Kg		101	70 - 130
Surrogate		LCS %Recovery	LCS Qualifier	Limits			
1-Chlorooctane		117		70 - 130			
o-Terphenyl		125		70 - 130			

Lab Sample ID: LCSD 880-45662/3-A
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45662

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	896.9	*1	mg/Kg		90	70 - 130	27	20
Diesel Range Organics (Over C10-C28)	1000	1092		mg/Kg		109	70 - 130	8	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		117		70 - 130					
o-Terphenyl		129		70 - 130					

Lab Sample ID: 890-4008-A-3-D MS
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 45662

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 *1	998	1142		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1196		mg/Kg		117	70 - 130
Surrogate		MS %Recovery	MS Qualifier	Limits					
1-Chlorooctane		74		70 - 130					
o-Terphenyl		71		70 - 130					

Lab Sample ID: 890-4008-A-3-E MSD
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 45662

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 *1	999	1028		mg/Kg		98	70 - 130	11	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1141		mg/Kg		111	70 - 130	5	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1-Chlorooctane		69	S1-	70 - 130							

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: 890-4008-A-3-E MSD
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 45662

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	67	S1-	70 - 130

Lab Sample ID: MB 880-45763/1-A
Matrix: Solid
Analysis Batch: 45729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45763

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/08/23 21:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/08/23 21:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/08/23 10:22	02/08/23 21:23	1
Surrogate	MB	MB	Limits	Prepared		Analyzed	Dil Fac	
	%Recovery	Qualifier						
1-Chlorooctane	136	S1+	70 - 130	02/08/23 10:22		02/08/23 21:23	1	
o-Terphenyl	139	S1+	70 - 130	02/08/23 10:22		02/08/23 21:23	1	

Lab Sample ID: LCS 880-45763/2-A
Matrix: Solid
Analysis Batch: 45729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45763

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			1000	852.5		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	939.4		mg/Kg		94	70 - 130		
					</						

Lab Sample ID: LCSD 880-45763/3-A
Matrix: Solid
Analysis Batch: 45729

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45763

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	859.7		mg/Kg		86	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	922.4		mg/Kg		92	70 - 130	2	20
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	121		70 - 130								
o-Terphenyl	110		70 - 130								

QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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

Lab Sample ID: 880-24450-A-14-D MS

Matrix: Solid

Analysis Batch: 45729

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 45763

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	684.7	F1	mg/Kg		67	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	693.6	F1	mg/Kg		67	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	88		70 - 130						

Lab Sample ID: 880-24450-A-14-E MSD

Matrix: Solid

Analysis Batch: 45729

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45763

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	1045	F2	mg/Kg		103	70 - 130	42	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	806.9		mg/Kg		78	70 - 130	15	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	102		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45663/1-A
Matrix: Solid
Analysis Batch: 45708

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/07/23 14:48	1

Lab Sample ID: LCS 880-45663/2-A
Matrix: Solid
Analysis Batch: 45708

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.1		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-45663/3-A
Matrix: Solid
Analysis Batch: 45708

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	255.5		mg/Kg		102	90 - 110	1	20

QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4013-1 MS

Matrix: Solid

Analysis Batch: 45708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	267		253	507.1		mg/Kg		95	90 - 110		

Lab Sample ID: 890-4013-1 MSD

Matrix: Solid

Analysis Batch: 45708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	267		253	507.2		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-4013-11 MS

Matrix: Solid

Analysis Batch: 45708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	64.8		249	311.1		mg/Kg		99	90 - 110		

Lab Sample ID: 890-4013-11 MSD

Matrix: Solid

Analysis Batch: 45708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	64.8		249	309.4		mg/Kg		98	90 - 110	1	20

Client Sample ID: PH01

Prep Type: Soluble

Client Sample ID: PH01

Prep Type: Soluble

Client Sample ID: PH05B

Prep Type: Soluble

Client Sample ID: PH05B

Prep Type: Soluble

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

GC VOA

Prep Batch: 45890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45890/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 45954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-10	PH05A	Total/NA	Solid	8021B	45966
MB 880-45957/5-A	Method Blank	Total/NA	Solid	8021B	45957
MB 880-45966/5-A	Method Blank	Total/NA	Solid	8021B	45966
LCS 880-45966/1-A	Lab Control Sample	Total/NA	Solid	8021B	45966
LCSD 880-45966/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45966
880-24559-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	45966
880-24559-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45966

Analysis Batch: 45955

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-1	PH01	Total/NA	Solid	8021B	45967
890-4013-2	PH01A	Total/NA	Solid	8021B	45967
MB 880-45890/5-A	Method Blank	Total/NA	Solid	8021B	45890
MB 880-45967/5-A	Method Blank	Total/NA	Solid	8021B	45967
LCS 880-45967/1-A	Lab Control Sample	Total/NA	Solid	8021B	45967
LCSD 880-45967/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45967
890-4071-A-4-D MS	Matrix Spike	Total/NA	Solid	8021B	45967
890-4071-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45967

Analysis Batch: 45956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-3	PH02	Total/NA	Solid	8021B	45983
890-4013-4	PH02A	Total/NA	Solid	8021B	45983
890-4013-5	PH03	Total/NA	Solid	8021B	45983
890-4013-7	PH04A	Total/NA	Solid	8021B	45983
890-4013-8	PH04B	Total/NA	Solid	8021B	45983
MB 880-45983/5-A	Method Blank	Total/NA	Solid	8021B	45983
LCS 880-45983/1-A	Lab Control Sample	Total/NA	Solid	8021B	45983
LCSD 880-45983/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45983
890-4024-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	45983
890-4024-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45983

Prep Batch: 45957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45957/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 45966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-10	PH05A	Total/NA	Solid	5035	
MB 880-45966/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45966/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45966/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24559-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-24559-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

GC VOA

Prep Batch: 45967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-1	PH01	Total/NA	Solid	5035	
890-4013-2	PH01A	Total/NA	Solid	5035	
MB 880-45967/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45967/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45967/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4071-A-4-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4071-A-4-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 45983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-3	PH02	Total/NA	Solid	5035	
890-4013-4	PH02A	Total/NA	Solid	5035	
890-4013-5	PH03	Total/NA	Solid	5035	
890-4013-7	PH04A	Total/NA	Solid	5035	
890-4013-8	PH04B	Total/NA	Solid	5035	
MB 880-45983/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45983/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45983/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4024-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4024-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 46013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46013/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 46022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-6	PH04	Total/NA	Solid	5035	
MB 880-46022/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46022/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46022/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4068-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4068-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-6	PH04	Total/NA	Solid	8021B	46022
MB 880-46022/5-A	Method Blank	Total/NA	Solid	8021B	46022
LCS 880-46022/1-A	Lab Control Sample	Total/NA	Solid	8021B	46022
LCSD 880-46022/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46022
890-4068-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	46022
890-4068-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46022

Prep Batch: 46085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-11	PH05B	Total/NA	Solid	5035	
MB 880-46085/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46085/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46085/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24618-A-21-C MS	Matrix Spike	Total/NA	Solid	5035	
880-24618-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

GC VOA

Analysis Batch: 46089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-11	PH05B	Total/NA	Solid	8021B	46085
MB 880-46013/5-A	Method Blank	Total/NA	Solid	8021B	46013
MB 880-46085/5-A	Method Blank	Total/NA	Solid	8021B	46085
LCS 880-46085/1-A	Lab Control Sample	Total/NA	Solid	8021B	46085
LCSD 880-46085/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46085
880-24618-A-21-C MS	Matrix Spike	Total/NA	Solid	8021B	46085
880-24618-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46085

Prep Batch: 46177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-7	PH04A	Total/NA	Solid	5035	
890-4013-8	PH04B	Total/NA	Solid	5035	
890-4013-9	PH05	Total/NA	Solid	5035	

Analysis Batch: 46225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-1	PH01	Total/NA	Solid	Total BTEX	
890-4013-2	PH01A	Total/NA	Solid	Total BTEX	
890-4013-3	PH02	Total/NA	Solid	Total BTEX	
890-4013-4	PH02A	Total/NA	Solid	Total BTEX	
890-4013-5	PH03	Total/NA	Solid	Total BTEX	
890-4013-6	PH04	Total/NA	Solid	Total BTEX	
890-4013-7	PH04A	Total/NA	Solid	Total BTEX	
890-4013-8	PH04B	Total/NA	Solid	Total BTEX	
890-4013-9	PH05	Total/NA	Solid	Total BTEX	
890-4013-10	PH05A	Total/NA	Solid	Total BTEX	
890-4013-11	PH05B	Total/NA	Solid	Total BTEX	

Analysis Batch: 46260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-7	PH04A	Total/NA	Solid	8021B	46177
890-4013-8	PH04B	Total/NA	Solid	8021B	46177
890-4013-9	PH05	Total/NA	Solid	8021B	46177

GC Semi VOA

Prep Batch: 45662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-1	PH01	Total/NA	Solid	8015NM Prep	
890-4013-2	PH01A	Total/NA	Solid	8015NM Prep	
890-4013-3	PH02	Total/NA	Solid	8015NM Prep	
890-4013-4	PH02A	Total/NA	Solid	8015NM Prep	
890-4013-5	PH03	Total/NA	Solid	8015NM Prep	
890-4013-6	PH04	Total/NA	Solid	8015NM Prep	
MB 880-45662/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45662/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4008-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4008-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

GC Semi VOA

Analysis Batch: 45729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-7	PH04A	Total/NA	Solid	8015B NM	45763
890-4013-8	PH04B	Total/NA	Solid	8015B NM	45763
890-4013-9	PH05	Total/NA	Solid	8015B NM	45763
890-4013-10	PH05A	Total/NA	Solid	8015B NM	45763
890-4013-11	PH05B	Total/NA	Solid	8015B NM	45763
MB 880-45763/1-A	Method Blank	Total/NA	Solid	8015B NM	45763
LCS 880-45763/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45763
LCSD 880-45763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45763
880-24450-A-14-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45763
880-24450-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45763

Prep Batch: 45763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-7	PH04A	Total/NA	Solid	8015NM Prep	
890-4013-8	PH04B	Total/NA	Solid	8015NM Prep	
890-4013-9	PH05	Total/NA	Solid	8015NM Prep	
890-4013-10	PH05A	Total/NA	Solid	8015NM Prep	
890-4013-11	PH05B	Total/NA	Solid	8015NM Prep	
MB 880-45763/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45763/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45763/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24450-A-14-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24450-A-14-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-1	PH01	Total/NA	Solid	8015 NM	
890-4013-2	PH01A	Total/NA	Solid	8015 NM	
890-4013-3	PH02	Total/NA	Solid	8015 NM	
890-4013-4	PH02A	Total/NA	Solid	8015 NM	
890-4013-5	PH03	Total/NA	Solid	8015 NM	
890-4013-6	PH04	Total/NA	Solid	8015 NM	
890-4013-7	PH04A	Total/NA	Solid	8015 NM	
890-4013-8	PH04B	Total/NA	Solid	8015 NM	
890-4013-9	PH05	Total/NA	Solid	8015 NM	
890-4013-10	PH05A	Total/NA	Solid	8015 NM	
890-4013-11	PH05B	Total/NA	Solid	8015 NM	

Analysis Batch: 45951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-1	PH01	Total/NA	Solid	8015B NM	45662
890-4013-2	PH01A	Total/NA	Solid	8015B NM	45662
890-4013-3	PH02	Total/NA	Solid	8015B NM	45662
890-4013-4	PH02A	Total/NA	Solid	8015B NM	45662
890-4013-5	PH03	Total/NA	Solid	8015B NM	45662
890-4013-6	PH04	Total/NA	Solid	8015B NM	45662
MB 880-45662/1-A	Method Blank	Total/NA	Solid	8015B NM	45662
LCS 880-45662/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45662
LCSD 880-45662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45662
890-4008-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	45662
890-4008-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45662

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

HPLC/IC

Leach Batch: 45663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-1	PH01	Soluble	Solid	DI Leach	
890-4013-2	PH01A	Soluble	Solid	DI Leach	
890-4013-3	PH02	Soluble	Solid	DI Leach	
890-4013-4	PH02A	Soluble	Solid	DI Leach	
890-4013-5	PH03	Soluble	Solid	DI Leach	
890-4013-6	PH04	Soluble	Solid	DI Leach	
890-4013-7	PH04A	Soluble	Solid	DI Leach	
890-4013-8	PH04B	Soluble	Solid	DI Leach	
890-4013-9	PH05	Soluble	Solid	DI Leach	
890-4013-10	PH05A	Soluble	Solid	DI Leach	
890-4013-11	PH05B	Soluble	Solid	DI Leach	
MB 880-45663/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4013-1 MS	PH01	Soluble	Solid	DI Leach	
890-4013-1 MSD	PH01	Soluble	Solid	DI Leach	
890-4013-11 MS	PH05B	Soluble	Solid	DI Leach	
890-4013-11 MSD	PH05B	Soluble	Solid	DI Leach	

Analysis Batch: 45708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4013-1	PH01	Soluble	Solid	300.0	45663
890-4013-2	PH01A	Soluble	Solid	300.0	45663
890-4013-3	PH02	Soluble	Solid	300.0	45663
890-4013-4	PH02A	Soluble	Solid	300.0	45663
890-4013-5	PH03	Soluble	Solid	300.0	45663
890-4013-6	PH04	Soluble	Solid	300.0	45663
890-4013-7	PH04A	Soluble	Solid	300.0	45663
890-4013-8	PH04B	Soluble	Solid	300.0	45663
890-4013-9	PH05	Soluble	Solid	300.0	45663
890-4013-10	PH05A	Soluble	Solid	300.0	45663
890-4013-11	PH05B	Soluble	Solid	300.0	45663
MB 880-45663/1-A	Method Blank	Soluble	Solid	300.0	45663
LCS 880-45663/2-A	Lab Control Sample	Soluble	Solid	300.0	45663
LCSD 880-45663/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45663
890-4013-1 MS	PH01	Soluble	Solid	300.0	45663
890-4013-1 MSD	PH01	Soluble	Solid	300.0	45663
890-4013-11 MS	PH05B	Soluble	Solid	300.0	45663
890-4013-11 MSD	PH05B	Soluble	Solid	300.0	45663

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH01
Date Collected: 02/02/23 12:00
Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-1
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			4.99 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 08:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 22:00	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 15:02	CH	EET MID

Client Sample ID: PH01A
Date Collected: 02/02/23 12:15
Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	45967	02/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45955	02/11/23 08:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/13/23 18:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 22:22	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 15:16	CH	EET MID

Client Sample ID: PH02
Date Collected: 02/02/23 12:55
Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/11/23 03:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 22:44	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 15:20	CH	EET MID

Client Sample ID: PH02A
Date Collected: 02/02/23 13:05
Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-4
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			5.02 g	5 mL	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/11/23 03:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/13/23 18:49	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH02A

Date Collected: 02/02/23 13:05

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-4

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			45863	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 23:06	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 15:25	CH	EET MID

Client Sample ID: PH03

Date Collected: 02/02/23 13:35

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/11/23 04:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 23:28	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 15:30	CH	EET MID

Client Sample ID: PH04

Date Collected: 02/02/23 10:10

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46022	02/10/23 15:23	MNR	EET MID
Total/NA	Analysis	8021B		10	5 mL	5 mL	46060	02/11/23 23:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/13/23 19:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/13/23 17:08	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45662	02/07/23 09:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 23:49	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 15:44	CH	EET MID

Client Sample ID: PH04A

Date Collected: 02/02/23 10:25

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-7

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			5.02 g	5 mL	46177	02/13/23 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46260	02/14/23 17:16	MNR	EET MID
Total/NA	Prep	5035			4.97 g	5 mL	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/11/23 04:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/09/23 09:45	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH04A

Date Collected: 02/02/23 10:25

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-7

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	8015NM Prep			10.02 g	10 mL	45763	02/08/23 10:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45729	02/09/23 02:55	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 15:48	CH	EET MID

Client Sample ID: PH04B

Date Collected: 02/02/23 12:30

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-8

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	46177	02/13/23 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46260	02/14/23 16:36	MNR	EET MID
Total/NA	Prep	5035			4.98 g	5 mL	45983	02/10/23 10:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45956	02/11/23 05:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/13/23 18:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/09/23 09:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45763	02/08/23 10:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45729	02/09/23 03:15	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 15:53	CH	EET MID

Client Sample ID: PH05

Date Collected: 02/02/23 13:55

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-9

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	46177	02/13/23 15:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46260	02/14/23 17:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/14/23 18:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/09/23 09:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45763	02/08/23 10:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45729	02/09/23 03:36	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 15:58	CH	EET MID

Client Sample ID: PH05A

Date Collected: 02/02/23 14:05

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-10

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			4.98 g	5 mL	45966	02/10/23 10:23	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45954	02/11/23 05:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/13/23 19:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/09/23 09:45	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Client Sample ID: PH05A

Date Collected: 02/02/23 14:05

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-10

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	8015NM Prep			10.01 g	10 mL	45763	02/08/23 10:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45729	02/09/23 03:56	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 16:02	CH	EET MID

Client Sample ID: PH05B

Date Collected: 02/02/23 14:45

Date Received: 02/03/23 08:32

Lab Sample ID: 890-4013-11

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			5.00 g	5 mL	46085	02/13/23 11:50	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46089	02/14/23 05:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46225	02/14/23 11:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			45863	02/09/23 09:45	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	45763	02/08/23 10:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45729	02/09/23 04:17	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	45663	02/07/23 09:26	KS	EET MID
Soluble	Analysis	300.0		1			45708	02/07/23 16:07	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: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

- 1
- 2
- 3
- 4
- 5
- 6
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- 11
- 12
- 13
- 14

Method Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

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: Tiger Compressor Station

Job ID: 890-4013-1
SDG: 03C1558149

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4013-1	PH01	Solid	02/02/23 12:00	02/03/23 08:32	1
890-4013-2	PH01A	Solid	02/02/23 12:15	02/03/23 08:32	4
890-4013-3	PH02	Solid	02/02/23 12:55	02/03/23 08:32	1
890-4013-4	PH02A	Solid	02/02/23 13:05	02/03/23 08:32	3
890-4013-5	PH03	Solid	02/02/23 13:35	02/03/23 08:32	2
890-4013-6	PH04	Solid	02/02/23 10:10	02/03/23 08:32	1
890-4013-7	PH04A	Solid	02/02/23 10:25	02/03/23 08:32	4
890-4013-8	PH04B	Solid	02/02/23 12:30	02/03/23 08:32	8.5
890-4013-9	PH05	Solid	02/02/23 13:55	02/03/23 08:32	2
890-4013-10	PH05A	Solid	02/02/23 14:05	02/03/23 08:32	4
890-4013-11	PH05B	Solid	02/02/23 14:45	02/03/23 08:32	10

- 1
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- 12
- 13
- 14



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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Tacoma Memmsey	Bill to: (if different)	Garrett Green
Company Name:	Ensium, LLC	Company Name:	XTO Energy, Inc
Address:	3122 Nat'l Park Hwy	Address:	3104 E Greenc St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmommsey@ensium.com

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:	Tiger Compressor Station	Turn Around	☒ Routine ☐ Rush	Pres. Code	
Project Number:	03C1558149	Due Date:			
Project Location:	32.11807, 103.90896	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Meredith Roberts				
P.O. #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No			
Samples Received Intact:	☒ Yes ☐ No	Thermometer ID:	NM-003		
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.3		
Sample Custody Seals:	☒ Yes ☐ No	Temperature Reading:	3.6		
Total Containers:		Corrected Temperature:	3.4		



890-4013 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Preservative Codes	Sample Comments
PH01	S	3/2/23	1200	1'	G	1	BTEX	None: NO	Incident #:
PH01A			1215	4'			Chlorides	DI Water: H ₂ O	NAP2235638568
PH02			1255	1'			TPH	Cool: Cool	
PH02A ^{MT}			1305	3'				HCL: HC	MeOH: Me
PH03			1335	2'				H ₂ SO ₄ : H ₂	HNO ₃ : HN
PH04			1010	1'				H ₃ PO ₄ : HP	NaOH: Na
PH04A			1025	4'				NaHSO ₄ : NABIS	
PH04B			1230	8.5'				Na ₂ S ₂ O ₃ : NaSO ₃	
PH05			1355	2'				Zn Acetate+NaOH: Zn	
PH05A			1405	4'				NaOH+Ascorbic Acid: SAPC	

Total 200.7 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Meredith Roberts</i>	<i>Garrett Green</i>	3-23-23			

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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

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Tacoma Monissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum LLC	Company Name:	XTO Energy, Inc
Address:	3122 Nat'l Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmonissey@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:	Tiger Compressor Station	Turn Around	☒ Routine ☐ Rush	Pres. Code		ANALYSIS REQUEST																Preservative Codes					
Project Number:	036158149	Due Date:																				None: NO	DI Water: H ₂ O				
Project Location:	32.11807, -103.90896	Due Date:																				Cool: Cool	MeOH: Me				
Sampler's Name:	Mercedith Roberts	TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC	HNO ₃ : HN				
P.O. #:																						H ₂ SO ₄ : H ₂	NaOH: Na				
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No																	H ₃ PO ₄ : HP					
Samples Received Intact:		Yes No	Thermometer:																			NaHSO ₄ : NABIS					
Cooler Custody Seals:		Yes No	Correction Factor:																			Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:		Yes No	Temperature Recording:																			Zn Acetate+NaOH: Zn					
Total Containers:			Corrected Temperature:																			NaOH+Ascorbic Acid: SACP					
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont																	Sample Comments				
PH05B	S	2/2/23	1445	10'	G	1	X	BTEX	X	Chlorides	X	TPH	X													Incident #: NAEP2235638568	
							X																	Cost Center: 2027031001			
							X																	mercedith@ensolum.com			

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. <i>Mercedith Roberts</i>	2. <i>Garrett Green</i>	2			
3.		4			
5.		6			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4013-1

SDG Number: 03C1558149

Login Number: 4013

List Source: Eurofins Carlsbad

List Number: 1

Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4013-1

SDG Number: 03C1558149

Login Number: 4013

List Source: Eurofins Midland

List Number: 2

List Creation: 02/06/23 08:40 AM

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/14/2023 12:58:40 PM

JOB DESCRIPTION

Tiger Compressor Station
SDG NUMBER 03C1558149

JOB NUMBER

890-4032-1

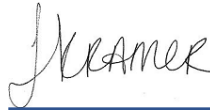
Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
2/14/2023 12:58:40 PM

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

Client: Ensolum
Project/Site: Tiger Compressor Station

Laboratory Job ID: 890-4032-1
SDG: 03C1558149

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Definitions/Glossary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

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
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
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

Job ID: 890-4032-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4032-1

Receipt

The samples were received on 2/3/2023 4:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4032-1), FS02 (890-4032-2) and FS03 (890-4032-3).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45998 and analytical batch 880-46090 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4023-A-1-G). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-45802 and analytical batch 880-45951 was outside the control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-4031-A-21-D), (890-4031-A-21-E MS) and (890-4031-A-21-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS01 (890-4032-1), FS02 (890-4032-2) and FS03 (890-4032-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

Client Sample ID: FS01

Lab Sample ID: 890-4032-1

Date Collected: 02/03/23 13:15

Matrix: Solid

Date Received: 02/03/23 16:37

Sample Depth: 1.5'

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		02/10/23 13:43	02/13/23 17:25	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/10/23 13:43	02/13/23 17:25	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/10/23 13:43	02/13/23 17:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/10/23 13:43	02/13/23 17:25	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/10/23 13:43	02/13/23 17:25	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/10/23 13:43	02/13/23 17:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130	02/10/23 13:43	02/13/23 17:25	1
1,4-Difluorobenzene (Surr)	107		70 - 130	02/10/23 13:43	02/13/23 17:25	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			02/14/23 11:25	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			02/13/23 17:08	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		02/08/23 13:10	02/10/23 18:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/08/23 13:10	02/10/23 18:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/08/23 13:10	02/10/23 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	52	S1-	70 - 130	02/08/23 13:10	02/10/23 18:00	1
o-Terphenyl	58	S1-	70 - 130	02/08/23 13:10	02/10/23 18:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	394		5.00	mg/Kg			02/08/23 03:27	1

Client Sample ID: FS02

Lab Sample ID: 890-4032-2

Date Collected: 02/03/23 13:45

Matrix: Solid

Date Received: 02/03/23 16:37

Sample Depth: 1.5'

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		02/10/23 13:43	02/13/23 17:46	1
Toluene	0.00236		0.00198	mg/Kg		02/10/23 13:43	02/13/23 17:46	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		02/10/23 13:43	02/13/23 17:46	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		02/10/23 13:43	02/13/23 17:46	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		02/10/23 13:43	02/13/23 17:46	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		02/10/23 13:43	02/13/23 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	02/10/23 13:43	02/13/23 17:46	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

Client Sample ID: FS02

Lab Sample ID: 890-4032-2

Date Collected: 02/03/23 13:45

Matrix: Solid

Date Received: 02/03/23 16:37

Sample Depth: 1.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	02/10/23 13:43	02/13/23 17:46	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			02/14/23 11:25	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			02/13/23 17:08	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		02/08/23 13:10	02/10/23 18:22	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/08/23 13:10	02/10/23 18:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/08/23 13:10	02/10/23 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130			02/08/23 13:10	02/10/23 18:22	1
o-Terphenyl	59	S1-	70 - 130			02/08/23 13:10	02/10/23 18:22	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	321		4.99	mg/Kg			02/08/23 03:31	1

Client Sample ID: FS03

Lab Sample ID: 890-4032-3

Date Collected: 02/03/23 13:50

Matrix: Solid

Date Received: 02/03/23 16:37

Sample Depth: 1.5'

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		02/10/23 13:43	02/13/23 19:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/10/23 13:43	02/13/23 19:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/10/23 13:43	02/13/23 19:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/10/23 13:43	02/13/23 19:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/10/23 13:43	02/13/23 19:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/10/23 13:43	02/13/23 19:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			02/10/23 13:43	02/13/23 19:43	1
1,4-Difluorobenzene (Surr)	105		70 - 130			02/10/23 13:43	02/13/23 19:43	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			02/14/23 11:25	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			02/13/23 17:08	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

Client Sample ID: FS03
Date Collected: 02/03/23 13:50
Date Received: 02/03/23 16:37
Sample Depth: 1.5'

Lab Sample ID: 890-4032-3
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	<49.9	U	49.9	mg/Kg		02/08/23 13:10	02/10/23 18:44	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/08/23 13:10	02/10/23 18:44	1	
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/08/23 13:10	02/10/23 18:44	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	55	S1-	70 - 130			02/08/23 13:10	02/10/23 18:44	1	
o-Terphenyl	60	S1-	70 - 130			02/08/23 13:10	02/10/23 18:44	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	304		4.95	mg/Kg			02/08/23 03:45	1	

Surrogate Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

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)
890-4023-A-1-E MS	Matrix Spike	109	80
890-4023-A-1-F MSD	Matrix Spike Duplicate	99	72
890-4032-1	FS01	129	107
890-4032-2	FS02	122	104
890-4032-3	FS03	97	105
LCS 880-45998/1-A	Lab Control Sample	97	92
LCSD 880-45998/2-A	Lab Control Sample Dup	91	99
MB 880-45998/5-A	Method Blank	89	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)
890-4031-A-21-E MS	Matrix Spike	55 S1-	54 S1-
890-4031-A-21-F MSD	Matrix Spike Duplicate	56 S1-	54 S1-
890-4032-1	FS01	52 S1-	58 S1-
890-4032-2	FS02	54 S1-	59 S1-
890-4032-3	FS03	55 S1-	60 S1-
LCS 880-45802/2-A	Lab Control Sample	103	112
LCSD 880-45802/3-A	Lab Control Sample Dup	100	111
MB 880-45802/1-A	Method Blank	69 S1-	81
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45998/5-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 46090					Prep Batch: 45998				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		02/10/23 13:43	02/13/23 14:37	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/10/23 13:43	02/13/23 14:37	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/10/23 13:43	02/13/23 14:37	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/10/23 13:43	02/13/23 14:37	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/10/23 13:43	02/13/23 14:37	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/10/23 13:43	02/13/23 14:37	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	89		70 - 130			02/10/23 13:43	02/13/23 14:37	1	
1,4-Difluorobenzene (Surr)	92		70 - 130			02/10/23 13:43	02/13/23 14:37	1	

Lab Sample ID: LCS 880-45998/1-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 46090						Prep Batch: 45998			
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.08642		mg/Kg		86	70 - 130	
Toluene		0.100	0.08585		mg/Kg		86	70 - 130	
Ethylbenzene		0.100	0.07991		mg/Kg		80	70 - 130	
m-Xylene & p-Xylene		0.200	0.1605		mg/Kg		80	70 - 130	
o-Xylene		0.100	0.08411		mg/Kg		84	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		70 - 130						
1,4-Difluorobenzene (Surr)	92		70 - 130						

Lab Sample ID: LCSD 880-45998/2-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 46090						Prep Batch: 45998				
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1018		mg/Kg		102	70 - 130	16	35
Toluene		0.100	0.09750		mg/Kg		98	70 - 130	13	35
Ethylbenzene		0.100	0.08526		mg/Kg		85	70 - 130	6	35
m-Xylene & p-Xylene		0.200	0.1689		mg/Kg		84	70 - 130	5	35
o-Xylene		0.100	0.08721		mg/Kg		87	70 - 130	4	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	91		70 - 130							
1,4-Difluorobenzene (Surr)	99		70 - 130							

Lab Sample ID: 890-4023-A-1-E MS						Client Sample ID: Matrix Spike			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 46090						Prep Batch: 45998			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0996	0.06441	F1	mg/Kg		64	70 - 130
Toluene	<0.00201	U	0.0996	0.08273		mg/Kg		83	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

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

Lab Sample ID: 890-4023-A-1-E MS
Matrix: Solid
Analysis Batch: 46090

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 45998

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0996	0.09466		mg/Kg		94	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1893		mg/Kg		95	70 - 130
o-Xylene	<0.00201	U	0.0996	0.09271		mg/Kg		93	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	109		70 - 130						
1,4-Difluorobenzene (Surr)	80		70 - 130						

Lab Sample ID: 890-4023-A-1-F MSD
Matrix: Solid
Analysis Batch: 46090

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 45998

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0990	0.04898	F1	mg/Kg		49	70 - 130	27	35
Toluene	<0.00201	U	0.0990	0.07509		mg/Kg		75	70 - 130	10	35
Ethylbenzene	<0.00201	U	0.0990	0.08571		mg/Kg		86	70 - 130	10	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1643		mg/Kg		83	70 - 130	14	35
o-Xylene	<0.00201	U	0.0990	0.08300		mg/Kg		83	70 - 130	11	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	99		70 - 130								
1,4-Difluorobenzene (Surr)	72		70 - 130								

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

Lab Sample ID: MB 880-45802/1-A
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 45802

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		02/08/23 13:10	02/10/23 08:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/08/23 13:10	02/10/23 08:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/08/23 13:10	02/10/23 08:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
1-Chlorooctane	69	S1-	70 - 130					
o-Terphenyl	81		70 - 130					

Lab Sample ID: LCS 880-45802/2-A
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	882.5		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	897.1		mg/Kg		90	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

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

Lab Sample ID: LCS 880-45802/2-A
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 45802

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: LCSD 880-45802/3-A
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 45802

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	895.3		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	938.1		mg/Kg		94	70 - 130	4	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	100										
o-Terphenyl	111										

Lab Sample ID: 890-4031-A-21-E MS
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 45802

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	857.8		mg/Kg		81	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	872.8		mg/Kg		85	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	55	S1-									
o-Terphenyl	54	S1-									

Lab Sample ID: 890-4031-A-21-F MSD
Matrix: Solid
Analysis Batch: 45951

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 45802

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	997	869.4		mg/Kg		82	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	914.2		mg/Kg		89	70 - 130	5	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	56	S1-									
o-Terphenyl	54	S1-									

QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45706/1-A Matrix: Solid Analysis Batch: 45760										Client Sample ID: Method Blank Prep Type: Soluble	
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<5.00	U	5.00	mg/Kg			02/08/23 01:53	1			

Lab Sample ID: LCS 880-45706/2-A Matrix: Solid Analysis Batch: 45760										Client Sample ID: Lab Control Sample Prep Type: Soluble	
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	246.4		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-45706/3-A Matrix: Solid Analysis Batch: 45760										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	256.7		mg/Kg		103	90 - 110	4	20

Lab Sample ID: 890-4031-A-31-B MS Matrix: Solid Analysis Batch: 45760										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	479		249	705.9		mg/Kg		91	90 - 110		

Lab Sample ID: 890-4031-A-31-C MSD Matrix: Solid Analysis Batch: 45760										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	479		249	722.0		mg/Kg		98	90 - 110	2	20

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

GC VOA

Prep Batch: 45998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4032-1	FS01	Total/NA	Solid	5035	
890-4032-2	FS02	Total/NA	Solid	5035	
890-4032-3	FS03	Total/NA	Solid	5035	
MB 880-45998/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45998/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45998/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4023-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-4023-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4032-1	FS01	Total/NA	Solid	8021B	45998
890-4032-2	FS02	Total/NA	Solid	8021B	45998
890-4032-3	FS03	Total/NA	Solid	8021B	45998
MB 880-45998/5-A	Method Blank	Total/NA	Solid	8021B	45998
LCS 880-45998/1-A	Lab Control Sample	Total/NA	Solid	8021B	45998
LCSD 880-45998/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45998
890-4023-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	45998
890-4023-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45998

Analysis Batch: 46303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4032-1	FS01	Total/NA	Solid	Total BTEX	
890-4032-2	FS02	Total/NA	Solid	Total BTEX	
890-4032-3	FS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4032-1	FS01	Total/NA	Solid	8015NM Prep	
890-4032-2	FS02	Total/NA	Solid	8015NM Prep	
890-4032-3	FS03	Total/NA	Solid	8015NM Prep	
MB 880-45802/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45802/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45802/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4031-A-21-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4031-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4032-1	FS01	Total/NA	Solid	8015B NM	45802
890-4032-2	FS02	Total/NA	Solid	8015B NM	45802
890-4032-3	FS03	Total/NA	Solid	8015B NM	45802
MB 880-45802/1-A	Method Blank	Total/NA	Solid	8015B NM	45802
LCS 880-45802/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45802
LCSD 880-45802/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45802
890-4031-A-21-E MS	Matrix Spike	Total/NA	Solid	8015B NM	45802
890-4031-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45802

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

GC Semi VOA

Analysis Batch: 46202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4032-1	FS01	Total/NA	Solid	8015 NM	
890-4032-2	FS02	Total/NA	Solid	8015 NM	
890-4032-3	FS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 45706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4032-1	FS01	Soluble	Solid	DI Leach	
890-4032-2	FS02	Soluble	Solid	DI Leach	
890-4032-3	FS03	Soluble	Solid	DI Leach	
MB 880-45706/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45706/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45706/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4031-A-31-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4031-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 45760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4032-1	FS01	Soluble	Solid	300.0	45706
890-4032-2	FS02	Soluble	Solid	300.0	45706
890-4032-3	FS03	Soluble	Solid	300.0	45706
MB 880-45706/1-A	Method Blank	Soluble	Solid	300.0	45706
LCS 880-45706/2-A	Lab Control Sample	Soluble	Solid	300.0	45706
LCSD 880-45706/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45706
890-4031-A-31-B MS	Matrix Spike	Soluble	Solid	300.0	45706
890-4031-A-31-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	45706

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

Client Sample ID: FS01

Date Collected: 02/03/23 13:15

Date Received: 02/03/23 16:37

Lab Sample ID: 890-4032-1

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			4.98 g	5 mL	45998	02/10/23 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46090	02/13/23 17:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46303	02/14/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			46202	02/13/23 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	45802	02/08/23 13:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 18:00	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	45706	02/07/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1			45760	02/08/23 03:27	CH	EET MID

Client Sample ID: FS02

Date Collected: 02/03/23 13:45

Date Received: 02/03/23 16:37

Lab Sample ID: 890-4032-2

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			5.05 g	5 mL	45998	02/10/23 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46090	02/13/23 17:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46303	02/14/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			46202	02/13/23 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45802	02/08/23 13:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 18:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	45706	02/07/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1			45760	02/08/23 03:31	CH	EET MID

Client Sample ID: FS03

Date Collected: 02/03/23 13:50

Date Received: 02/03/23 16:37

Lab Sample ID: 890-4032-3

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	45998	02/10/23 13:43	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46090	02/13/23 19:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46303	02/14/23 11:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			46202	02/13/23 17:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	45802	02/08/23 13:10	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45951	02/10/23 18:44	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	45706	02/07/23 15:02	KS	EET MID
Soluble	Analysis	300.0		1			45760	02/08/23 03:45	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: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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

Method Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

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: Tiger Compressor Station

Job ID: 890-4032-1
SDG: 03C1558149

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4032-1	FS01	Solid	02/03/23 13:15	02/03/23 16:37	1.5'
890-4032-2	FS02	Solid	02/03/23 13:45	02/03/23 16:37	1.5'
890-4032-3	FS03	Solid	02/03/23 13:50	02/03/23 16:37	1.5'

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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

Chain of Custody

Work Order No: _____

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Project Manager:	Taceana Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum LLC	Company Name:	XTO Energy
Address:	3182 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmorrissey@ensolum.com

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:	Tiger Compressor Station	Turn Around	☒ Routine ☐ Rush	Pes. Code	
Project Number:	03C1558149	Due Date:			
Project Location:	32.11807, -103.90816	TAI starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Meredith Roberts				
P.O. #:					
SAMPLE RECEIPT	Temp Blank: ☒ Yes ☒ No	Wet Ice: ☒ Yes ☒ No			
Samples Received Intact:	☒ Yes ☒ No	Thermometer ID:	THW-002		
Cooler Custody Seals:	☒ Yes ☒ No	Correction Factor:	-0.2		
Sample Custody Seals:	☒ Yes ☒ No	Temperature Reading:	1.2		
Total Containers:		Corrected Temperature:	1.0		



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
ESD1	S	2/3/23	1315	1.5'	C	1	BTEX		None: NO	Incident #:
ESD2			1345				Chlorides		MeOH: Me	NAPF22351638568
ESD3			1350				TPH		HCL: HC	Cost Center:
									H ₂ SO ₄ : H ₂	3027031001
									H ₂ PO ₄ : HP	
									NaHSO ₄ : NABIS	
									Na ₂ SO ₄ : NaSO ₃	
									Zn Acetate+NaOH: Zn	
									NaOH+Ascorbic Acid: SAPC	

Total 200.7 / 6010	2008 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SLP 6010	:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U												

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Meredith Roberts</i>	<i>Alexandra Estefan</i>	2-3-23 16:51			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4032-1

SDG Number: 03C1558149

Login Number: 4032

List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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: 890-4032-1

SDG Number: 03C1558149

Login Number: 4032

List Source: Eurofins Midland

List Number: 2

List Creation: 02/07/23 01:54 PM

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/16/2023 8:28:00 AM

JOB DESCRIPTION

Tiger Compressor Station
SDG NUMBER 03C1558149

JOB NUMBER

890-4236-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Authorization

Generated
3/16/2023 8:28:00 AM

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

Client: Ensolum
Project/Site: Tiger Compressor Station

Laboratory Job ID: 890-4236-1
SDG: 03C1558149

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Definitions/Glossary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Qualifiers

GC 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.

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Job ID: 890-4236-1

Laboratory: Eurofins Carlsbad

Narrative	Job Narrative 890-4236-1
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Receipt

The samples were received on 3/3/2023 3:40 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 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW01 (890-4236-1), SW02 (890-4236-2), SW03 (890-4236-3) and SW04 (890-4236-4).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW01 (890-4236-1) and SW03 (890-4236-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-48166 and analytical batch 880-48177 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-48093 and analytical batch 880-48203 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Client Sample ID: SW01

Lab Sample ID: 890-4236-1

Date Collected: 03/03/23 09:05

Matrix: Solid

Date Received: 03/03/23 15:40

Sample Depth: 0-4'

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		03/15/23 10:45	03/15/23 19:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/15/23 10:45	03/15/23 19:59	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/15/23 10:45	03/15/23 19:59	1
m-Xylene & p-Xylene	<0.00402	U *1	0.00402	mg/Kg		03/15/23 10:45	03/15/23 19:59	1
o-Xylene	<0.00201	U *1	0.00201	mg/Kg		03/15/23 10:45	03/15/23 19:59	1
Xylenes, Total	<0.00402	U *1	0.00402	mg/Kg		03/15/23 10:45	03/15/23 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	03/15/23 10:45	03/15/23 19:59	1
1,4-Difluorobenzene (Surr)	69	S1-	70 - 130	03/15/23 10:45	03/15/23 19:59	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			03/16/23 09:07	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			03/10/23 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	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 17:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 17:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/08/23 17:08	03/09/23 17:05	1
o-Terphenyl	99		70 - 130	03/08/23 17:08	03/09/23 17:05	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	52.6		4.97	mg/Kg			03/09/23 22:02	1

Client Sample ID: SW02

Lab Sample ID: 890-4236-2

Date Collected: 03/03/23 09:10

Matrix: Solid

Date Received: 03/03/23 15:40

Sample Depth: 0-4'

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		03/15/23 10:45	03/15/23 20:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/15/23 10:45	03/15/23 20:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/15/23 10:45	03/15/23 20:20	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		03/15/23 10:45	03/15/23 20:20	1
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		03/15/23 10:45	03/15/23 20:20	1
Xylenes, Total	<0.00398	U *1	0.00398	mg/Kg		03/15/23 10:45	03/15/23 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	03/15/23 10:45	03/15/23 20:20	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Client Sample ID: SW02

Lab Sample ID: 890-4236-2

Date Collected: 03/03/23 09:10

Matrix: Solid

Date Received: 03/03/23 15:40

Sample Depth: 0-4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	76		70 - 130	03/15/23 10:45	03/15/23 20:20	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			03/16/23 09:07	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			03/10/23 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	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 17:26	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 17:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			03/08/23 17:08	03/09/23 17:26	1
o-Terphenyl	100		70 - 130			03/08/23 17:08	03/09/23 17:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.8		4.96	mg/Kg			03/09/23 22:08	1

Client Sample ID: SW03

Lab Sample ID: 890-4236-3

Date Collected: 03/03/23 09:15

Matrix: Solid

Date Received: 03/03/23 15:40

Sample Depth: 0-4'

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		03/15/23 10:45	03/15/23 20:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/15/23 10:45	03/15/23 20:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/15/23 10:45	03/15/23 20:40	1
m-Xylene & p-Xylene	<0.00398	U *1	0.00398	mg/Kg		03/15/23 10:45	03/15/23 20:40	1
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		03/15/23 10:45	03/15/23 20:40	1
Xylenes, Total	<0.00398	U *1	0.00398	mg/Kg		03/15/23 10:45	03/15/23 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53	S1-	70 - 130	03/15/23 10:45	03/15/23 20:40	1
1,4-Difluorobenzene (Surr)	73		70 - 130	03/15/23 10:45	03/15/23 20:40	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			03/16/23 09:07	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			03/10/23 17:58	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Client Sample ID: SW03
Date Collected: 03/03/23 09:15
Date Received: 03/03/23 15:40
Sample Depth: 0-4'

Lab Sample ID: 890-4236-3
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		03/08/23 17:08	03/09/23 17:47	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 17:47	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 17:47	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	109		70 - 130			03/08/23 17:08	03/09/23 17:47	1	
o-Terphenyl	109		70 - 130			03/08/23 17:08	03/09/23 17:47	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	111		5.02	mg/Kg			03/09/23 22:14	1	

Client Sample ID: SW04
Date Collected: 03/03/23 09:20
Date Received: 03/03/23 15:40
Sample Depth: 0-4'

Lab Sample ID: 890-4236-4
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		03/15/23 10:45	03/15/23 21:01	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/15/23 10:45	03/15/23 21:01	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/15/23 10:45	03/15/23 21:01	1	
m-Xylene & p-Xylene	<0.00401	U *1	0.00401	mg/Kg		03/15/23 10:45	03/15/23 21:01	1	
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/15/23 10:45	03/15/23 21:01	1	
Xylenes, Total	<0.00401	U *1	0.00401	mg/Kg		03/15/23 10:45	03/15/23 21:01	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		70 - 130			03/15/23 10:45	03/15/23 21:01	1	
1,4-Difluorobenzene (Surr)	88		70 - 130			03/15/23 10:45	03/15/23 21:01	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			03/16/23 09:07	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			03/10/23 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	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 18:06	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 18:06	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 18:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	112		70 - 130			03/08/23 17:08	03/09/23 18:06	1	
o-Terphenyl	113		70 - 130			03/08/23 17:08	03/09/23 18:06	1	

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Client Sample ID: SW04
Date Collected: 03/03/23 09:20
Date Received: 03/03/23 15:40
Sample Depth: 0-4'

Lab Sample ID: 890-4236-4
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	66.6		4.98	mg/Kg			03/09/23 22:20	1	

Surrogate Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-4236-1	SW01	87	69 S1-
890-4236-1 MS	SW01	97	96
890-4236-1 MSD	SW01	94	108
890-4236-2	SW02	109	76
890-4236-3	SW03	53 S1-	73
890-4236-4	SW04	102	88
LCS 880-48657/1-A	Lab Control Sample	82	95
LCSD 880-48657/2-A	Lab Control Sample Dup	115	133 S1+
MB 880-48623/39	Method Blank	85	82
MB 880-48657/5-A	Method Blank	71	72

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-4236-1	SW01	103	99
890-4236-2	SW02	101	100
890-4236-3	SW03	109	109
890-4236-4	SW04	112	113
890-4242-A-1-B MS	Matrix Spike	114	98
890-4242-A-1-C MSD	Matrix Spike Duplicate	113	96
LCS 880-48166/2-A	Lab Control Sample	108	102
LCSD 880-48166/3-A	Lab Control Sample Dup	102	97
MB 880-48166/1-A	Method Blank	143 S1+	147 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48623/39						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 48623								
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			03/15/23 05:29	1
Toluene	<0.00200	U	0.00200	mg/Kg			03/15/23 05:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			03/15/23 05:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			03/15/23 05:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			03/15/23 05:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg			03/15/23 05:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130				03/15/23 05:29	1
1,4-Difluorobenzene (Surr)	82		70 - 130				03/15/23 05:29	1

Lab Sample ID: MB 880-48657/5-A						Client Sample ID: Method Blank		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 48623						Prep Batch: 48657		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/15/23 10:45	03/15/23 19:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/15/23 10:45	03/15/23 19:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/15/23 10:45	03/15/23 19:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/15/23 10:45	03/15/23 19:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/15/23 10:45	03/15/23 19:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/15/23 10:45	03/15/23 19:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	71		70 - 130			03/15/23 10:45	03/15/23 19:37	1
1,4-Difluorobenzene (Surr)	72		70 - 130			03/15/23 10:45	03/15/23 19:37	1

Lab Sample ID: LCS 880-48657/1-A						Client Sample ID: Lab Control Sample		
Matrix: Solid						Prep Type: Total/NA		
Analysis Batch: 48623						Prep Batch: 48657		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene	0.100	0.09788		mg/Kg		98	70 - 130	
Toluene	0.100	0.09359		mg/Kg		94	70 - 130	
Ethylbenzene	0.100	0.08257		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1702		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.08356		mg/Kg		84	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
4-Bromofluorobenzene (Surr)	82		70 - 130					
1,4-Difluorobenzene (Surr)	95		70 - 130					

Lab Sample ID: LCSD 880-48657/2-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 48623						Prep Batch: 48657				
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Benzene	0.100	0.1164		mg/Kg		116	70 - 130	17	35	

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

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

Lab Sample ID: LCSD 880-48657/2-A

Matrix: Solid

Analysis Batch: 48623

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48657

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.1094		mg/Kg		109	70 - 130	16		35
Ethylbenzene	0.100	0.1146		mg/Kg		115	70 - 130	32		35
m-Xylene & p-Xylene	0.200	0.2562	*1	mg/Kg		128	70 - 130	40		35
o-Xylene	0.100	0.1268	*1	mg/Kg		127	70 - 130	41		35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	133	S1+	70 - 130

Lab Sample ID: 890-4236-1 MS

Matrix: Solid

Analysis Batch: 48623

Client Sample ID: SW01

Prep Type: Total/NA

Prep Batch: 48657

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	RPD
Benzene	<0.00201	U	0.100	0.07107		mg/Kg		71	70 - 130	
Toluene	<0.00201	U	0.100	0.07904		mg/Kg		79	70 - 130	
Ethylbenzene	<0.00201	U	0.100	0.07538		mg/Kg		75	70 - 130	
m-Xylene & p-Xylene	<0.00402	U *1	0.200	0.1514		mg/Kg		76	70 - 130	
o-Xylene	<0.00201	U *1	0.100	0.07715		mg/Kg		77	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-4236-1 MSD

Matrix: Solid

Analysis Batch: 48623

Client Sample ID: SW01

Prep Type: Total/NA

Prep Batch: 48657

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits	RPD		
Benzene	<0.00201	U	0.0996	0.09945		mg/Kg		100	70 - 130	33		35
Toluene	<0.00201	U	0.0996	0.08555		mg/Kg		86	70 - 130	8		35
Ethylbenzene	<0.00201	U	0.0996	0.08114		mg/Kg		81	70 - 130	7		35
m-Xylene & p-Xylene	<0.00402	U *1	0.199	0.1661		mg/Kg		83	70 - 130	9		35
o-Xylene	<0.00201	U *1	0.0996	0.08375		mg/Kg		84	70 - 130	8		35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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

Lab Sample ID: MB 880-48166/1-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48166

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 08:37	1

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

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

Lab Sample ID: MB 880-48166/1-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48166

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 08:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 08:37	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	143	S1+	70 - 130			03/08/23 17:08	03/09/23 08:37	1
o-Terphenyl	147	S1+	70 - 130			03/08/23 17:08	03/09/23 08:37	1

Lab Sample ID: LCS 880-48166/2-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48166

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	943.7		mg/Kg		94		70 - 130	
Diesel Range Organics (Over C10-C28)			1000	1105		mg/Kg		110		70 - 130	

Lab Sample ID: LCSD 880-48166/3-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48166

Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	997.4		mg/Kg		100	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130	5	20
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	102		70 - 130								
o-Terphenyl	97		70 - 130								

Lab Sample ID: 890-4242-A-1-B MS

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48166

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits		
	Result	Qualifier	Added	Result	Qualifier			%Rec				
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1118		mg/Kg		109	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U	998	936.0		mg/Kg		91	70 - 130			
		MS	MS									
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	114		70 - 130									
o-Terphenyl	98		70 - 130									

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

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

Lab Sample ID: 890-4242-A-1-C MSD

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48166

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	1082		mg/Kg		105	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	922.0		mg/Kg		90	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	113		70 - 130								
o-Terphenyl	96		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48093/1-A

Matrix: Solid

Analysis Batch: 48203

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/09/23 19:15	1

Lab Sample ID: LCS 880-48093/2-A

Matrix: Solid

Analysis Batch: 48203

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.8		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-48093/3-A

Matrix: Solid

Analysis Batch: 48203

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	257.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-4229-A-11-C MS

Matrix: Solid

Analysis Batch: 48203

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	404	F1	250	687.5	F1	mg/Kg		113	90 - 110

Lab Sample ID: 890-4229-A-11-D MSD

Matrix: Solid

Analysis Batch: 48203

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	404	F1	250	664.6		mg/Kg		104	90 - 110	3	20

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

GC VOA

Analysis Batch: 48623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4236-1	SW01	Total/NA	Solid	8021B	48657
890-4236-2	SW02	Total/NA	Solid	8021B	48657
890-4236-3	SW03	Total/NA	Solid	8021B	48657
890-4236-4	SW04	Total/NA	Solid	8021B	48657
MB 880-48623/39	Method Blank	Total/NA	Solid	8021B	
MB 880-48657/5-A	Method Blank	Total/NA	Solid	8021B	48657
LCS 880-48657/1-A	Lab Control Sample	Total/NA	Solid	8021B	48657
LCSD 880-48657/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48657
890-4236-1 MS	SW01	Total/NA	Solid	8021B	48657
890-4236-1 MSD	SW01	Total/NA	Solid	8021B	48657

Prep Batch: 48657

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4236-1	SW01	Total/NA	Solid	5035	
890-4236-2	SW02	Total/NA	Solid	5035	
890-4236-3	SW03	Total/NA	Solid	5035	
890-4236-4	SW04	Total/NA	Solid	5035	
MB 880-48657/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48657/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48657/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4236-1 MS	SW01	Total/NA	Solid	5035	
890-4236-1 MSD	SW01	Total/NA	Solid	5035	

Analysis Batch: 48713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4236-1	SW01	Total/NA	Solid	Total BTEX	
890-4236-2	SW02	Total/NA	Solid	Total BTEX	
890-4236-3	SW03	Total/NA	Solid	Total BTEX	
890-4236-4	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4236-1	SW01	Total/NA	Solid	8015NM Prep	
890-4236-2	SW02	Total/NA	Solid	8015NM Prep	
890-4236-3	SW03	Total/NA	Solid	8015NM Prep	
890-4236-4	SW04	Total/NA	Solid	8015NM Prep	
MB 880-48166/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48166/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4242-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4242-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4236-1	SW01	Total/NA	Solid	8015B NM	48166
890-4236-2	SW02	Total/NA	Solid	8015B NM	48166
890-4236-3	SW03	Total/NA	Solid	8015B NM	48166
890-4236-4	SW04	Total/NA	Solid	8015B NM	48166
MB 880-48166/1-A	Method Blank	Total/NA	Solid	8015B NM	48166

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

GC Semi VOA (Continued)

Analysis Batch: 48177 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-48166/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48166
LCSD 880-48166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48166
890-4242-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48166
890-4242-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48166

Analysis Batch: 48373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4236-1	SW01	Total/NA	Solid	8015 NM	
890-4236-2	SW02	Total/NA	Solid	8015 NM	
890-4236-3	SW03	Total/NA	Solid	8015 NM	
890-4236-4	SW04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4236-1	SW01	Soluble	Solid	DI Leach	
890-4236-2	SW02	Soluble	Solid	DI Leach	
890-4236-3	SW03	Soluble	Solid	DI Leach	
890-4236-4	SW04	Soluble	Solid	DI Leach	
MB 880-48093/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48093/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48093/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4229-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4229-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 48203

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4236-1	SW01	Soluble	Solid	300.0	48093
890-4236-2	SW02	Soluble	Solid	300.0	48093
890-4236-3	SW03	Soluble	Solid	300.0	48093
890-4236-4	SW04	Soluble	Solid	300.0	48093
MB 880-48093/1-A	Method Blank	Soluble	Solid	300.0	48093
LCS 880-48093/2-A	Lab Control Sample	Soluble	Solid	300.0	48093
LCSD 880-48093/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48093
890-4229-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	48093
890-4229-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48093

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Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Client Sample ID: SW01

Date Collected: 03/03/23 09:05

Date Received: 03/03/23 15:40

Lab Sample ID: 890-4236-1

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			4.97 g	5 mL	48657	03/15/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 19:59	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48713	03/16/23 09:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48373	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 17:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48093	03/08/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48203	03/09/23 22:02	CH	EET MID

Client Sample ID: SW02

Date Collected: 03/03/23 09:10

Date Received: 03/03/23 15:40

Lab Sample ID: 890-4236-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48657	03/15/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 20:20	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48713	03/16/23 09:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48373	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 17:26	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48093	03/08/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48203	03/09/23 22:08	CH	EET MID

Client Sample ID: SW03

Date Collected: 03/03/23 09:15

Date Received: 03/03/23 15:40

Lab Sample ID: 890-4236-3

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	48657	03/15/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 20:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48713	03/16/23 09:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48373	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 17:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48093	03/08/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48203	03/09/23 22:14	CH	EET MID

Client Sample ID: SW04

Date Collected: 03/03/23 09:20

Date Received: 03/03/23 15:40

Lab Sample ID: 890-4236-4

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			4.99 g	5 mL	48657	03/15/23 10:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 21:01	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48713	03/16/23 09:07	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Client Sample ID: SW04

Lab Sample ID: 890-4236-4

Date Collected: 03/03/23 09:20

Matrix: Solid

Date Received: 03/03/23 15:40

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			48373	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 18:06	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48093	03/08/23 09:37	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48203	03/09/23 22:20	CH	EET MID

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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Method Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

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: Tiger Compressor Station

Job ID: 890-4236-1
SDG: 03C1558149

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4236-1	SW01	Solid	03/03/23 09:05	03/03/23 15:40	0-4'
890-4236-2	SW02	Solid	03/03/23 09:10	03/03/23 15:40	0-4'
890-4236-3	SW03	Solid	03/03/23 09:15	03/03/23 15:40	0-4'
890-4236-4	SW04	Solid	03/03/23 09:20	03/03/23 15:40	0-4'

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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

Chain of Custody

Work Order No: _____

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Project Manager:	Taxoma Monastery	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	tmorrissey@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:	Tiger Compressor Station	Turn Around	
Project Number:	03C1558149	☒ Routine ☐ Rush	
Project Location:	32.11807, -103.90896	Due Date:	
Sampler's Name:	Meredith Roberts	TAT starts the day received by the lab, if received by 4:30pm	
PO #:		Wet Ice:	Yes ☒ No ☐
SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐
Samples Received Intact:	Yes ☒ No ☐	Thermometer ID:	71110001
Cooler Custody Seals:	Yes ☒ No ☐ N/A ☐	Correction Factor:	-0.2
Sample Custody Seals:	Yes ☒ No ☐ N/A ☐	Temperature Reading:	0.1
Total Containers:		Corrected Temperature:	0.2
		Parameters	BTEX Chlorides TPH
		ANALYSIS REQUEST	
		Preservative Codes	None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC



Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Cont	# of Cont	Sample Comments
SW01	S	3/3/23	0905	0-4'	C	1	Incident #: NAPP2235636568
SW02			0910				Cost Center: 2027031001
SW03			0915				
SW04			0920				
							mroberts@ensolum.com

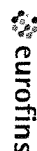
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	3.3.23 1510			

1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4236-1

SDG Number: 03C1558149

Login Number: 4236

List Number: 1

Creator: Stutzman, Amanda

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: 890-4236-1

SDG Number: 03C1558149

Login Number: 4236

List Source: Eurofins Midland

List Number: 2

List Creation: 03/07/23 11:18 AM

Creator: Teel, Brianna

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



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/17/2023 10:02:14 AM Revision 1

JOB DESCRIPTION

Tiger Compressor Station
SDG NUMBER 03C1558149

JOB NUMBER

890-4237-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization



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

Generated
3/17/2023 10:02:14 AM
Revision 1

Client: Ensolum
Project/Site: Tiger Compressor Station

Laboratory Job ID: 890-4237-1
SDG: 03C1558149

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Definitions/Glossary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

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

Case Narrative

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

Job ID: 890-4237-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4237-1

REVISION

The report being provided is a revision of the original report sent on 3/10/2023. The report (revision 1) is being revised due to Revised report per client request to correct client sample IDs..

Report revision history

Receipt

The samples were received on 3/3/2023 3:40 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 2.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS04 (890-4237-1), FS05 (890-4237-2) and FS06 (890-4237-3).

890-4237

Sample names on COC do not match Sample names on jars. Client requested the names on sample jars be used.

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

Client Sample ID: FS04

Lab Sample ID: 890-4237-1

Date Collected: 03/03/23 08:50

Matrix: Solid

Date Received: 03/03/23 15:40

Sample Depth: 4'

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		03/09/23 10:01	03/09/23 20:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:01	03/09/23 20:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:01	03/09/23 20:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/09/23 10:01	03/09/23 20:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:01	03/09/23 20:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/09/23 10:01	03/09/23 20:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130	03/09/23 10:01	03/09/23 20:15	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/09/23 10:01	03/09/23 20:15	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			03/10/23 08:07	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			03/08/23 15:09	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	<49.9	U	49.9	mg/Kg		03/06/23 16:54	03/07/23 13:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/06/23 16:54	03/07/23 13:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/06/23 16:54	03/07/23 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	03/06/23 16:54	03/07/23 13:23	1
o-Terphenyl	102		70 - 130	03/06/23 16:54	03/07/23 13:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.0		5.04	mg/Kg			03/07/23 14:19	1

Client Sample ID: FS05

Lab Sample ID: 890-4237-2

Date Collected: 03/03/23 08:55

Matrix: Solid

Date Received: 03/03/23 15:40

Sample Depth: 4'

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		03/09/23 10:01	03/09/23 20:35	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/09/23 10:01	03/09/23 20:35	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/09/23 10:01	03/09/23 20:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/09/23 10:01	03/09/23 20:35	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/09/23 10:01	03/09/23 20:35	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/09/23 10:01	03/09/23 20:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	03/09/23 10:01	03/09/23 20:35	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

Client Sample ID: FS05

Lab Sample ID: 890-4237-2

Date Collected: 03/03/23 08:55

Matrix: Solid

Date Received: 03/03/23 15:40

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	03/09/23 10:01	03/09/23 20:35	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			03/10/23 08:07	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			03/08/23 15:09	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	<49.9	U	49.9	mg/Kg		03/06/23 16:54	03/07/23 13:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/06/23 16:54	03/07/23 13:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/06/23 16:54	03/07/23 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			03/06/23 16:54	03/07/23 13:45	1
o-Terphenyl	97		70 - 130			03/06/23 16:54	03/07/23 13:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		4.98	mg/Kg			03/07/23 14:37	1

Client Sample ID: FS06

Lab Sample ID: 890-4237-3

Date Collected: 03/03/23 09:00

Matrix: Solid

Date Received: 03/03/23 15:40

Sample Depth: 4'

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		03/09/23 10:01	03/09/23 22:26	1
Toluene	0.00712		0.00198	mg/Kg		03/09/23 10:01	03/09/23 22:26	1
Ethylbenzene	0.00352		0.00198	mg/Kg		03/09/23 10:01	03/09/23 22:26	1
m-Xylene & p-Xylene	0.00826		0.00396	mg/Kg		03/09/23 10:01	03/09/23 22:26	1
o-Xylene	0.00657		0.00198	mg/Kg		03/09/23 10:01	03/09/23 22:26	1
Xylenes, Total	0.0148		0.00396	mg/Kg		03/09/23 10:01	03/09/23 22:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	03/09/23 10:01	03/09/23 22:26	1
1,4-Difluorobenzene (Surr)	117		70 - 130	03/09/23 10:01	03/09/23 22:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0255		0.00396	mg/Kg			03/10/23 08:07	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			03/08/23 15:09	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

Client Sample ID: FS06
Date Collected: 03/03/23 09:00
Date Received: 03/03/23 15:40
Sample Depth: 4'

Lab Sample ID: 890-4237-3
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		03/06/23 16:54	03/07/23 14:07	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/06/23 16:54	03/07/23 14:07	1	
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/06/23 16:54	03/07/23 14:07	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	94		70 - 130			03/06/23 16:54	03/07/23 14:07	1	
o-Terphenyl	98		70 - 130			03/06/23 16:54	03/07/23 14:07	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	68.1		4.95	mg/Kg			03/07/23 14:43	1	

Surrogate Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

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)
890-4237-1	FS04	91	97
890-4237-2	FS05	117	103
890-4237-3	FS06	101	117
890-4238-A-1-C MS	Matrix Spike	118	108
890-4238-A-1-D MSD	Matrix Spike Duplicate	126	106
LCS 880-48191/1-A	Lab Control Sample	115	106
LCSD 880-48191/2-A	Lab Control Sample Dup	118	112
MB 880-48191/5-A	Method Blank	104	103

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)
890-4229-A-81-C MS	Matrix Spike	93	90
890-4229-A-81-D MSD	Matrix Spike Duplicate	94	88
890-4231-A-16-C MS	Matrix Spike	116	117
890-4231-A-16-D MSD	Matrix Spike Duplicate	124	117
890-4237-1	FS04	94	102
890-4237-2	FS05	93	97
890-4237-3	FS06	94	98
LCS 880-47967/2-A	Lab Control Sample	110	108
LCS 880-48107/2-A	Lab Control Sample	105	116
LCSD 880-47967/3-A	Lab Control Sample Dup	110	108
LCSD 880-48107/3-A	Lab Control Sample Dup	119	118
MB 880-47967/1-A	Method Blank	132 S1+	136 S1+
MB 880-48107/1-A	Method Blank	103	110

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48191/5-A

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48191

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:01	03/09/23 17:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:01	03/09/23 17:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:01	03/09/23 17:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/09/23 10:01	03/09/23 17:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:01	03/09/23 17:03	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/09/23 10:01	03/09/23 17:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/09/23 10:01	03/09/23 17:03	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/09/23 10:01	03/09/23 17:03	1

Lab Sample ID: LCS 880-48191/1-A

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48191

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1087		mg/Kg		109	70 - 130
Toluene	0.100	0.1065		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1112		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2391		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1142		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-48191/2-A

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48191

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1081		mg/Kg		108	70 - 130	1	35
Toluene	0.100	0.1053		mg/Kg		105	70 - 130	1	35
Ethylbenzene	0.100	0.1085		mg/Kg		109	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2331		mg/Kg		117	70 - 130	3	35
o-Xylene	0.100	0.1119		mg/Kg		112	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-4238-A-1-C MS

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.08720		mg/Kg		87	70 - 130
Toluene	<0.00201	U	0.100	0.08696		mg/Kg		86	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

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

Lab Sample ID: 890-4238-A-1-C MS

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48191

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.09378		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1984		mg/Kg		99	70 - 130
o-Xylene	<0.00201	U	0.100	0.09873		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-4238-A-1-D MSD

Matrix: Solid

Analysis Batch: 48223

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48191

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0990	0.09503		mg/Kg		96	70 - 130	9	35
Toluene	<0.00201	U	0.0990	0.09631		mg/Kg		97	70 - 130	10	35
Ethylbenzene	<0.00201	U	0.0990	0.1056		mg/Kg		107	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.2238		mg/Kg		113	70 - 130	12	35
o-Xylene	<0.00201	U	0.0990	0.1091		mg/Kg		110	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

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

Lab Sample ID: MB 880-47967/1-A

Matrix: Solid

Analysis Batch: 47987

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47967

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		03/06/23 16:54	03/07/23 08:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/06/23 16:54	03/07/23 08:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/06/23 16:54	03/07/23 08:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	03/06/23 16:54	03/07/23 08:13	1
o-Terphenyl	136	S1+	70 - 130	03/06/23 16:54	03/07/23 08:13	1

Lab Sample ID: LCS 880-47967/2-A

Matrix: Solid

Analysis Batch: 47987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	999	823.9		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	999	825.7		mg/Kg		83	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

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

Lab Sample ID: LCS 880-47967/2-A
Matrix: Solid
Analysis Batch: 47987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 47967

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-47967/3-A
Matrix: Solid
Analysis Batch: 47987

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 47967

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			999	703.4		mg/Kg		70	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			999	827.5		mg/Kg		83	70 - 130	0	20
Surrogate		LCSD	LCSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	110		70 - 130								
o-Terphenyl	108		70 - 130								

Lab Sample ID: 890-4229-A-81-C MS
Matrix: Solid
Analysis Batch: 47987

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 47967

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	998	1027		mg/Kg		103	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	964.4		mg/Kg		97	70 - 130		
Surrogate		MS	MS								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	93		70 - 130								
o-Terphenyl	90		70 - 130								

Lab Sample ID: 890-4229-A-81-D MSD
Matrix: Solid
Analysis Batch: 47987

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 47967

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	1064		mg/Kg		106	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	952.1		mg/Kg		95	70 - 130	1	20
Surrogate		MSD	MSD								
	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	88		70 - 130								

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

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

Lab Sample ID: MB 880-48107/1-A

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48107

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		03/08/23 10:30	03/08/23 20:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/08/23 20:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/08/23 20:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	03/08/23 10:30	03/08/23 20:50	1
o-Terphenyl	110		70 - 130	03/08/23 10:30	03/08/23 20:50	1

Lab Sample ID: LCS 880-48107/2-A

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	951.6		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1208		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-48107/3-A

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48107

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	941.9		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1154		mg/Kg		115	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-4231-A-16-C MS

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48107

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	998	1008		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	988.9		mg/Kg		99	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

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

Lab Sample ID: 890-4231-A-16-C MS

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48107

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 890-4231-A-16-D MSD

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48107

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	947.7		mg/Kg		91	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	994.0		mg/Kg		99	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	117		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48016/1-A

Matrix: Solid

Analysis Batch: 48019

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/07/23 14:00	1

Lab Sample ID: LCS 880-48016/2-A

Matrix: Solid

Analysis Batch: 48019

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.4		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-48016/3-A

Matrix: Solid

Analysis Batch: 48019

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	244.6		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-4237-1 MS

Matrix: Solid

Analysis Batch: 48019

Client Sample ID: FS04

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	69.0		252	316.8		mg/Kg		98	90 - 110

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4237-1 MSD							Client Sample ID: FS04					
Matrix: Solid							Prep Type: Soluble					
Analysis Batch: 48019												
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	69.0		252	318.5		mg/Kg		99	90 - 110	1	20	

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

GC VOA

Prep Batch: 48191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4237-1	FS04	Total/NA	Solid	5035	
890-4237-2	FS05	Total/NA	Solid	5035	
890-4237-3	FS06	Total/NA	Solid	5035	
MB 880-48191/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48191/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48191/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4238-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4238-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 48223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4237-1	FS04	Total/NA	Solid	8021B	48191
890-4237-2	FS05	Total/NA	Solid	8021B	48191
890-4237-3	FS06	Total/NA	Solid	8021B	48191
MB 880-48191/5-A	Method Blank	Total/NA	Solid	8021B	48191
LCS 880-48191/1-A	Lab Control Sample	Total/NA	Solid	8021B	48191
LCSD 880-48191/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48191
890-4238-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	48191
890-4238-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	48191

Analysis Batch: 48281

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4237-1	FS04	Total/NA	Solid	Total BTEX	
890-4237-2	FS05	Total/NA	Solid	Total BTEX	
890-4237-3	FS06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 47967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4237-1	FS04	Total/NA	Solid	8015NM Prep	
890-4237-2	FS05	Total/NA	Solid	8015NM Prep	
890-4237-3	FS06	Total/NA	Solid	8015NM Prep	
MB 880-47967/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47967/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47967/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4229-A-81-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4229-A-81-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4237-1	FS04	Total/NA	Solid	8015B NM	47967
890-4237-2	FS05	Total/NA	Solid	8015B NM	47967
890-4237-3	FS06	Total/NA	Solid	8015B NM	47967
MB 880-47967/1-A	Method Blank	Total/NA	Solid	8015B NM	47967
LCS 880-47967/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47967
LCSD 880-47967/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47967
890-4229-A-81-C MS	Matrix Spike	Total/NA	Solid	8015B NM	47967
890-4229-A-81-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47967

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

GC Semi VOA

Analysis Batch: 48081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48107/1-A	Method Blank	Total/NA	Solid	8015B NM	48107
LCS 880-48107/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48107
LCSD 880-48107/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48107
890-4231-A-16-C MS	Matrix Spike	Total/NA	Solid	8015B NM	48107
890-4231-A-16-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48107

Prep Batch: 48107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48107/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48107/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48107/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4231-A-16-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4231-A-16-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4237-1	FS04	Total/NA	Solid	8015 NM	
890-4237-2	FS05	Total/NA	Solid	8015 NM	
890-4237-3	FS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4237-1	FS04	Soluble	Solid	DI Leach	
890-4237-2	FS05	Soluble	Solid	DI Leach	
890-4237-3	FS06	Soluble	Solid	DI Leach	
MB 880-48016/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48016/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48016/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4237-1 MS	FS04	Soluble	Solid	DI Leach	
890-4237-1 MSD	FS04	Soluble	Solid	DI Leach	

Analysis Batch: 48019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4237-1	FS04	Soluble	Solid	300.0	48016
890-4237-2	FS05	Soluble	Solid	300.0	48016
890-4237-3	FS06	Soluble	Solid	300.0	48016
MB 880-48016/1-A	Method Blank	Soluble	Solid	300.0	48016
LCS 880-48016/2-A	Lab Control Sample	Soluble	Solid	300.0	48016
LCSD 880-48016/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48016
890-4237-1 MS	FS04	Soluble	Solid	300.0	48016
890-4237-1 MSD	FS04	Soluble	Solid	300.0	48016

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Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

Client Sample ID: FS04

Lab Sample ID: 890-4237-1

Date Collected: 03/03/23 08:50

Matrix: Solid

Date Received: 03/03/23 15:40

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	48191	03/09/23 10:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48223	03/09/23 20:15	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48281	03/10/23 08:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48141	03/08/23 15:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	47967	03/06/23 16:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47987	03/07/23 13:23	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48016	03/07/23 10:52	KS	EET MID
Soluble	Analysis	300.0		1			48019	03/07/23 14:19	SMC	EET MID

Client Sample ID: FS05

Lab Sample ID: 890-4237-2

Date Collected: 03/03/23 08:55

Matrix: Solid

Date Received: 03/03/23 15:40

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	48191	03/09/23 10:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48223	03/09/23 20:35	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48281	03/10/23 08:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48141	03/08/23 15:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47967	03/06/23 16:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47987	03/07/23 13:45	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48016	03/07/23 10:52	KS	EET MID
Soluble	Analysis	300.0		1			48019	03/07/23 14:37	SMC	EET MID

Client Sample ID: FS06

Lab Sample ID: 890-4237-3

Date Collected: 03/03/23 09:00

Matrix: Solid

Date Received: 03/03/23 15:40

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	48191	03/09/23 10:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48223	03/09/23 22:26	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48281	03/10/23 08:07	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48141	03/08/23 15:09	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47967	03/06/23 16:54	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47987	03/07/23 14:07	AJ	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48016	03/07/23 10:52	KS	EET MID
Soluble	Analysis	300.0		1			48019	03/07/23 14:43	SMC	EET MID

Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

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Method Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

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: Tiger Compressor Station

Job ID: 890-4237-1
SDG: 03C1558149

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4237-1	FS04	Solid	03/03/23 08:50	03/03/23 15:40	4'
890-4237-2	FS05	Solid	03/03/23 08:55	03/03/23 15:40	4'
890-4237-3	FS06	Solid	03/03/23 09:00	03/03/23 15:40	4'

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Environment Testing

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

Chain of Custody

Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Tadoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Enselum, LLC	Company Name:	XTO Energy
Address:	3172 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88720	City, State ZIP:	Carlsbad, NM 88720
Phone:	337.257.8307	Email:	tmorrissey@enselum.com

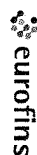
Work Order Comments				
Program:	UST/PST ☐	PRP ☐	Brownfields ☐	RRC ☐ Superfund ☐
State of Project:				
Reporting:	Level II ☐	Level III ☐	PST/UST ☐	TRRP ☐ Level IV ☐
Deliverables:	EDD ☐	ADAPT ☐	Other: _____	

[illegible][illegible]

Total 2007 / 6010	2008 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	Zn	
Circle Method(s) and Metal(s) to be analyzed		TC1P / SPLP 6010 :	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U			Hg: 1631 / 245.1 / 7470 / 7471									
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.																															
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time																										
<i>[Signature]</i>	<i>[Signature]</i>	3.3.23 15 ⁴⁰																													
3			4																												
5			6																												

1089 N Canal St.
Carlsbad, NM 88220
Phone. 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4237-1

SDG Number: 03C1558149

Login Number: 4237

List Number: 1

Creator: Stutzman, Amanda

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: 890-4237-1
SDG Number: 03C1558149

Login Number: 4237
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 03/07/23 11:18 AM

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/14/2023 8:33:25 AM

JOB DESCRIPTION

Tiger Compressor Station
SDG NUMBER 03C1558149

JOB NUMBER

890-4241-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
3/14/2023 8:33:25 AM

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

Client: Ensolum
Project/Site: Tiger Compressor Station

Laboratory Job ID: 890-4241-1
SDG: 03C1558149

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Definitions/Glossary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

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
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
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Job ID: 890-4241-1

Laboratory: Eurofins Carlsbad

Narrative	Job Narrative 890-4241-1
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Receipt

The samples were received on 3/6/2023 3:03 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 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS08 (890-4241-1), FS10 (890-4241-2), FS12 (890-4241-3), FS13 (890-4241-4), FS14 (890-4241-5), FS15 (890-4241-6), FS16 (890-4241-7), FS17 (890-4241-8), FS18 (890-4241-9), FS19 (890-4241-10) and FS20 (890-4241-11).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS13 (890-4241-4). 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: FS15 (890-4241-6), FS16 (890-4241-7), FS17 (890-4241-8), FS18 (890-4241-9), FS19 (890-4241-10) and FS20 (890-4241-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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.

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS08

Lab Sample ID: 890-4241-1

Date Collected: 03/06/23 09:00

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/09/23 10:44	03/10/23 12:30	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:44	03/10/23 12:30	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:44	03/10/23 12:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/09/23 10:44	03/10/23 12:30	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:44	03/10/23 12:30	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/09/23 10:44	03/10/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			03/09/23 10:44	03/10/23 12:30	1
1,4-Difluorobenzene (Surr)	84		70 - 130			03/09/23 10:44	03/10/23 12:30	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			03/10/23 17:20	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			03/09/23 11:59	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	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 00:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 00:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			03/08/23 10:30	03/09/23 00:28	1
o-Terphenyl	91		70 - 130			03/08/23 10:30	03/09/23 00:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.2		4.96	mg/Kg			03/08/23 12:55	1

Client Sample ID: FS10

Lab Sample ID: 890-4241-2

Date Collected: 03/06/23 09:10

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/09/23 10:44	03/10/23 14:55	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/09/23 10:44	03/10/23 14:55	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/09/23 10:44	03/10/23 14:55	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/09/23 10:44	03/10/23 14:55	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/09/23 10:44	03/10/23 14:55	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/09/23 10:44	03/10/23 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			03/09/23 10:44	03/10/23 14:55	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS10

Lab Sample ID: 890-4241-2

Date Collected: 03/06/23 09:10

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	03/09/23 10:44	03/10/23 14:55	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			03/10/23 17:20	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			03/09/23 11:59	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		03/08/23 10:30	03/09/23 00:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/09/23 00:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/09/23 00:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			03/08/23 10:30	03/09/23 00:49	1
o-Terphenyl	94		70 - 130			03/08/23 10:30	03/09/23 00:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	98.6		4.99	mg/Kg			03/08/23 12:59	1

Client Sample ID: FS12

Lab Sample ID: 890-4241-3

Date Collected: 03/06/23 11:20

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/09/23 10:44	03/10/23 15:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 15:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 15:16	1
m-Xylene & p-Xylene	0.00448		0.00398	mg/Kg		03/09/23 10:44	03/10/23 15:16	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 15:16	1
Xylenes, Total	0.00448		0.00398	mg/Kg		03/09/23 10:44	03/10/23 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	03/09/23 10:44	03/10/23 15:16	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/09/23 10:44	03/10/23 15:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00448		0.00398	mg/Kg			03/10/23 17:20	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			03/09/23 11:59	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS12

Lab Sample ID: 890-4241-3

Date Collected: 03/06/23 11:20

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

Method: SW846 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		03/08/23 10:30	03/09/23 01:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 01:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 01:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			03/08/23 10:30	03/09/23 01:11	1
o-Terphenyl	95		70 - 130			03/08/23 10:30	03/09/23 01:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.2		5.02	mg/Kg			03/08/23 13:04	1

Client Sample ID: FS13

Lab Sample ID: 890-4241-4

Date Collected: 03/06/23 12:05

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/09/23 10:44	03/10/23 15:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 15:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 15:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/09/23 10:44	03/10/23 15:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 15:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/09/23 10:44	03/10/23 15:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			03/09/23 10:44	03/10/23 15:37	1
1,4-Difluorobenzene (Surr)	84		70 - 130			03/09/23 10:44	03/10/23 15:37	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			03/10/23 17:20	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			03/09/23 11:59	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	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 01:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 01:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 01:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			03/08/23 10:30	03/09/23 01:32	1
o-Terphenyl	97		70 - 130			03/08/23 10:30	03/09/23 01:32	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS13

Lab Sample ID: 890-4241-4

Date Collected: 03/06/23 12:05

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.9		4.98	mg/Kg			03/08/23 13:09	1

Client Sample ID: FS14

Lab Sample ID: 890-4241-5

Date Collected: 03/06/23 12:10

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/09/23 10:44	03/10/23 17:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:44	03/10/23 17:02	1
Ethylbenzene	0.00490		0.00200	mg/Kg		03/09/23 10:44	03/10/23 17:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/09/23 10:44	03/10/23 17:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:44	03/10/23 17:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/09/23 10:44	03/10/23 17:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			03/09/23 10:44	03/10/23 17:02	1
1,4-Difluorobenzene (Surr)	82		70 - 130			03/09/23 10:44	03/10/23 17:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00490		0.00399	mg/Kg			03/14/23 09:22	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			03/09/23 11:59	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	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 01:54	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 01:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 01:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			03/08/23 10:30	03/09/23 01:54	1
o-Terphenyl	85		70 - 130			03/08/23 10:30	03/09/23 01:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.5		4.96	mg/Kg			03/08/23 13:24	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS15

Lab Sample ID: 890-4241-6

Date Collected: 03/06/23 11:35

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/09/23 10:44	03/10/23 17:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:44	03/10/23 17:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:44	03/10/23 17:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/09/23 10:44	03/10/23 17:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:44	03/10/23 17:22	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/09/23 10:44	03/10/23 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130	03/09/23 10:44	03/10/23 17:22	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/09/23 10:44	03/10/23 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			03/14/23 09:22	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			03/09/23 11:59	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		03/08/23 10:30	03/09/23 02:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/09/23 02:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/09/23 02:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130	03/08/23 10:30	03/09/23 02:37	1
o-Terphenyl	94		70 - 130	03/08/23 10:30	03/09/23 02:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.2		4.97	mg/Kg			03/08/23 13:29	1

Client Sample ID: FS16

Lab Sample ID: 890-4241-7

Date Collected: 03/06/23 11:40

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/09/23 10:44	03/10/23 17:43	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/09/23 10:44	03/10/23 17:43	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/09/23 10:44	03/10/23 17:43	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/09/23 10:44	03/10/23 17:43	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/09/23 10:44	03/10/23 17:43	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/09/23 10:44	03/10/23 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130	03/09/23 10:44	03/10/23 17:43	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS16

Lab Sample ID: 890-4241-7

Date Collected: 03/06/23 11:40

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85		70 - 130	03/09/23 10:44	03/10/23 17:43	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			03/14/23 09:22	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			03/09/23 11:59	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		03/08/23 10:30	03/09/23 02:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/09/23 02:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/09/23 02:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			03/08/23 10:30	03/09/23 02:59	1
o-Terphenyl	96		70 - 130			03/08/23 10:30	03/09/23 02:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.1		5.03	mg/Kg			03/08/23 13:33	1

Client Sample ID: FS17

Lab Sample ID: 890-4241-8

Date Collected: 03/06/23 12:15

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/09/23 10:44	03/10/23 18:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 18:04	1
Ethylbenzene	0.00394		0.00199	mg/Kg		03/09/23 10:44	03/10/23 18:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/09/23 10:44	03/10/23 18:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 18:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/09/23 10:44	03/10/23 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			03/09/23 10:44	03/10/23 18:04	1
1,4-Difluorobenzene (Surr)	88		70 - 130			03/09/23 10:44	03/10/23 18:04	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			03/14/23 09:22	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			03/09/23 11:59	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS17
Date Collected: 03/06/23 12:15
Date Received: 03/06/23 15:03
Sample Depth: 4'

Lab Sample ID: 890-4241-8
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	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 03:21	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 03:21	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 03:21	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	93		70 - 130			03/08/23 10:30	03/09/23 03:21	1	
o-Terphenyl	92		70 - 130			03/08/23 10:30	03/09/23 03:21	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	79.8		5.04	mg/Kg			03/08/23 13:38	1	

Client Sample ID: FS18
Date Collected: 03/06/23 13:15
Date Received: 03/06/23 15:03
Sample Depth: 4'

Lab Sample ID: 890-4241-9
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		03/09/23 10:44	03/10/23 18:24	1	
Toluene	0.00426		0.00199	mg/Kg		03/09/23 10:44	03/10/23 18:24	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 18:24	1	
m-Xylene & p-Xylene	0.00471		0.00398	mg/Kg		03/09/23 10:44	03/10/23 18:24	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/09/23 10:44	03/10/23 18:24	1	
Xylenes, Total	0.00471		0.00398	mg/Kg		03/09/23 10:44	03/10/23 18:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130			03/09/23 10:44	03/10/23 18:24	1	
1,4-Difluorobenzene (Surr)	82		70 - 130			03/09/23 10:44	03/10/23 18:24	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	0.00897		0.00398	mg/Kg			03/14/23 09:22	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			03/09/23 11:59	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	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 03:42	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 03:42	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 10:30	03/09/23 03:42	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	82		70 - 130			03/08/23 10:30	03/09/23 03:42	1	
o-Terphenyl	86		70 - 130			03/08/23 10:30	03/09/23 03:42	1	

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS18

Lab Sample ID: 890-4241-9

Date Collected: 03/06/23 13:15

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.9		5.00	mg/Kg			03/08/23 13:43	1

Client Sample ID: FS19

Lab Sample ID: 890-4241-10

Date Collected: 03/06/23 13:20

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/09/23 10:44	03/10/23 18:45	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:44	03/10/23 18:45	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:44	03/10/23 18:45	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/09/23 10:44	03/10/23 18:45	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/09/23 10:44	03/10/23 18:45	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/09/23 10:44	03/10/23 18:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			03/09/23 10:44	03/10/23 18:45	1
1,4-Difluorobenzene (Surr)	85		70 - 130			03/09/23 10:44	03/10/23 18:45	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			03/14/23 09:22	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			03/09/23 11:59	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		03/08/23 10:30	03/09/23 04:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/09/23 04:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/09/23 04:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			03/08/23 10:30	03/09/23 04:04	1
o-Terphenyl	94		70 - 130			03/08/23 10:30	03/09/23 04:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.02	mg/Kg			03/08/23 13:48	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS20
Date Collected: 03/06/23 13:25
Date Received: 03/06/23 15:03
Sample Depth: 4'

Lab Sample ID: 890-4241-11
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	-	03/09/23 10:44	03/10/23 19:06	1	
Toluene	<0.00199	U	0.00199	mg/Kg	-	03/09/23 10:44	03/10/23 19:06	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	-	03/09/23 10:44	03/10/23 19:06	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	-	03/09/23 10:44	03/10/23 19:06	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg	-	03/09/23 10:44	03/10/23 19:06	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	-	03/09/23 10:44	03/10/23 19:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			03/09/23 10:44	03/10/23 19:06	1	
1,4-Difluorobenzene (Surr)	81		70 - 130			03/09/23 10:44	03/10/23 19:06	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	-		03/14/23 09:22	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	-		03/09/23 11:59	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	<49.9	U	49.9	mg/Kg	-	03/08/23 10:30	03/09/23 04:25	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	03/08/23 10:30	03/09/23 04:25	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	03/08/23 10:30	03/09/23 04:25	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	83		70 - 130			03/08/23 10:30	03/09/23 04:25	1	
o-Terphenyl	87		70 - 130			03/08/23 10:30	03/09/23 04:25	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	71.9		4.97	mg/Kg	-		03/08/23 14:03	1	

Surrogate Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-4241-1	FS08	121	84
890-4241-1 MS	FS08	112	87
890-4241-1 MSD	FS08	114	88
890-4241-2	FS10	129	92
890-4241-3	FS12	126	85
890-4241-4	FS13	135 S1+	84
890-4241-5	FS14	120	82
890-4241-6	FS15	135 S1+	85
890-4241-7	FS16	136 S1+	85
890-4241-8	FS17	133 S1+	88
890-4241-9	FS18	145 S1+	82
890-4241-10	FS19	140 S1+	85
890-4241-11	FS20	140 S1+	81
LCS 880-48199/1-A	Lab Control Sample	117	81
LCSD 880-48199/2-A	Lab Control Sample Dup	112	88
MB 880-48199/5-A	Method Blank	103	74
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-4231-A-16-C MS	Matrix Spike	116	117
890-4231-A-16-D MSD	Matrix Spike Duplicate	124	117
890-4241-1	FS08	89	91
890-4241-2	FS10	93	94
890-4241-3	FS12	92	95
890-4241-4	FS13	91	97
890-4241-5	FS14	78	85
890-4241-6	FS15	94	94
890-4241-7	FS16	93	96
890-4241-8	FS17	93	92
890-4241-9	FS18	82	86
890-4241-10	FS19	94	94
890-4241-11	FS20	83	87
LCS 880-48107/2-A	Lab Control Sample	105	116
LCSD 880-48107/3-A	Lab Control Sample Dup	119	118
MB 880-48107/1-A	Method Blank	103	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48199/5-A

Matrix: Solid

Analysis Batch: 48285

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48199

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:44	03/10/23 12:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:44	03/10/23 12:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:44	03/10/23 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/09/23 10:44	03/10/23 12:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/09/23 10:44	03/10/23 12:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/09/23 10:44	03/10/23 12:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/09/23 10:44	03/10/23 12:08	1
1,4-Difluorobenzene (Surr)	74		70 - 130	03/09/23 10:44	03/10/23 12:08	1

Lab Sample ID: LCS 880-48199/1-A

Matrix: Solid

Analysis Batch: 48285

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09279		mg/Kg		93	70 - 130
Toluene	0.100	0.1003		mg/Kg		100	70 - 130
Ethylbenzene	0.100	0.1067		mg/Kg		107	70 - 130
m-Xylene & p-Xylene	0.200	0.2127		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: LCSD 880-48199/2-A

Matrix: Solid

Analysis Batch: 48285

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08991		mg/Kg		90	70 - 130	3	35
Toluene	0.100	0.09432		mg/Kg		94	70 - 130	6	35
Ethylbenzene	0.100	0.09333		mg/Kg		93	70 - 130	13	35
m-Xylene & p-Xylene	0.200	0.1870		mg/Kg		93	70 - 130	13	35
o-Xylene	0.100	0.09417		mg/Kg		94	70 - 130	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 890-4241-1 MS

Matrix: Solid

Analysis Batch: 48285

Client Sample ID: FS08

Prep Type: Total/NA

Prep Batch: 48199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.0996	0.07230		mg/Kg		72	70 - 130
Toluene	<0.00201	U	0.0996	0.07657		mg/Kg		76	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

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

Lab Sample ID: 890-4241-1 MS
Matrix: Solid
Analysis Batch: 48285

Client Sample ID: FS08
Prep Type: Total/NA
Prep Batch: 48199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0996	0.07599		mg/Kg		76	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1547		mg/Kg		77	70 - 130
o-Xylene	<0.00201	U	0.0996	0.07971		mg/Kg		80	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		70 - 130						
1,4-Difluorobenzene (Surr)	87		70 - 130						

Lab Sample ID: 890-4241-1 MSD
Matrix: Solid
Analysis Batch: 48285

Client Sample ID: FS08
Prep Type: Total/NA
Prep Batch: 48199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0990	0.08744		mg/Kg		88	70 - 130	19	35
Toluene	<0.00201	U	0.0990	0.09099		mg/Kg		91	70 - 130	17	35
Ethylbenzene	<0.00201	U	0.0990	0.08989		mg/Kg		91	70 - 130	17	35
m-Xylene & p-Xylene	<0.00402	U	0.198	0.1834		mg/Kg		92	70 - 130	17	35
o-Xylene	<0.00201	U	0.0990	0.09381		mg/Kg		95	70 - 130	16	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	114		70 - 130								
1,4-Difluorobenzene (Surr)	88		70 - 130								

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

Lab Sample ID: MB 880-48107/1-A
Matrix: Solid
Analysis Batch: 48081

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48107

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		03/08/23 10:30	03/08/23 20:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/08/23 20:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 10:30	03/08/23 20:50	1
Surrogate	MB %Recovery	MB Qualifier	Limits					
1-Chlorooctane	103		70 - 130					
o-Terphenyl	110		70 - 130					

Lab Sample ID: LCS 880-48107/2-A
Matrix: Solid
Analysis Batch: 48081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48107

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	951.6		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1208		mg/Kg		121	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

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

Lab Sample ID: LCS 880-48107/2-A

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48107

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: LCSD 880-48107/3-A

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48107

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	941.9		mg/Kg		94	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	1154		mg/Kg		115	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-4231-A-16-C MS

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 48107

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	998	1008		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	988.9		mg/Kg		99	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 890-4231-A-16-D MSD

Matrix: Solid

Analysis Batch: 48081

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48107

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	947.7		mg/Kg		91	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	994.0		mg/Kg		99	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	117		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48112/1-A Matrix: Solid Analysis Batch: 48113										Client Sample ID: Method Blank Prep Type: Soluble		
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac				
Chloride	<5.00	U	5.00	mg/Kg			03/08/23 12:16	1				

Lab Sample ID: LCS 880-48112/2-A Matrix: Solid Analysis Batch: 48113										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 880-48112/3-A Matrix: Solid Analysis Batch: 48113										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	268.7		mg/Kg		107	90 - 110	0	20	

Lab Sample ID: 890-4241-10 MS Matrix: Solid Analysis Batch: 48113										Client Sample ID: FS19 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	101		251	372.1		mg/Kg		108	90 - 110			

Lab Sample ID: 890-4241-10 MSD Matrix: Solid Analysis Batch: 48113										Client Sample ID: FS19 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	101		251	365.3		mg/Kg		105	90 - 110	2	20	

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

GC VOA

Prep Batch: 48199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4241-1	FS08	Total/NA	Solid	5035	
890-4241-2	FS10	Total/NA	Solid	5035	
890-4241-3	FS12	Total/NA	Solid	5035	
890-4241-4	FS13	Total/NA	Solid	5035	
890-4241-5	FS14	Total/NA	Solid	5035	
890-4241-6	FS15	Total/NA	Solid	5035	
890-4241-7	FS16	Total/NA	Solid	5035	
890-4241-8	FS17	Total/NA	Solid	5035	
890-4241-9	FS18	Total/NA	Solid	5035	
890-4241-10	FS19	Total/NA	Solid	5035	
890-4241-11	FS20	Total/NA	Solid	5035	
MB 880-48199/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48199/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48199/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4241-1 MS	FS08	Total/NA	Solid	5035	
890-4241-1 MSD	FS08	Total/NA	Solid	5035	

Analysis Batch: 48285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4241-1	FS08	Total/NA	Solid	8021B	48199
890-4241-2	FS10	Total/NA	Solid	8021B	48199
890-4241-3	FS12	Total/NA	Solid	8021B	48199
890-4241-4	FS13	Total/NA	Solid	8021B	48199
890-4241-5	FS14	Total/NA	Solid	8021B	48199
890-4241-6	FS15	Total/NA	Solid	8021B	48199
890-4241-7	FS16	Total/NA	Solid	8021B	48199
890-4241-8	FS17	Total/NA	Solid	8021B	48199
890-4241-9	FS18	Total/NA	Solid	8021B	48199
890-4241-10	FS19	Total/NA	Solid	8021B	48199
890-4241-11	FS20	Total/NA	Solid	8021B	48199
MB 880-48199/5-A	Method Blank	Total/NA	Solid	8021B	48199
LCS 880-48199/1-A	Lab Control Sample	Total/NA	Solid	8021B	48199
LCSD 880-48199/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48199
890-4241-1 MS	FS08	Total/NA	Solid	8021B	48199
890-4241-1 MSD	FS08	Total/NA	Solid	8021B	48199

Analysis Batch: 48363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4241-1	FS08	Total/NA	Solid	Total BTEX	
890-4241-2	FS10	Total/NA	Solid	Total BTEX	
890-4241-3	FS12	Total/NA	Solid	Total BTEX	
890-4241-4	FS13	Total/NA	Solid	Total BTEX	
890-4241-5	FS14	Total/NA	Solid	Total BTEX	
890-4241-6	FS15	Total/NA	Solid	Total BTEX	
890-4241-7	FS16	Total/NA	Solid	Total BTEX	
890-4241-8	FS17	Total/NA	Solid	Total BTEX	
890-4241-9	FS18	Total/NA	Solid	Total BTEX	
890-4241-10	FS19	Total/NA	Solid	Total BTEX	
890-4241-11	FS20	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

GC Semi VOA

Analysis Batch: 48081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4241-1	FS08	Total/NA	Solid	8015B NM	48107
890-4241-2	FS10	Total/NA	Solid	8015B NM	48107
890-4241-3	FS12	Total/NA	Solid	8015B NM	48107
890-4241-4	FS13	Total/NA	Solid	8015B NM	48107
890-4241-5	FS14	Total/NA	Solid	8015B NM	48107
890-4241-6	FS15	Total/NA	Solid	8015B NM	48107
890-4241-7	FS16	Total/NA	Solid	8015B NM	48107
890-4241-8	FS17	Total/NA	Solid	8015B NM	48107
890-4241-9	FS18	Total/NA	Solid	8015B NM	48107
890-4241-10	FS19	Total/NA	Solid	8015B NM	48107
890-4241-11	FS20	Total/NA	Solid	8015B NM	48107
MB 880-48107/1-A	Method Blank	Total/NA	Solid	8015B NM	48107
LCS 880-48107/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48107
LCSD 880-48107/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48107
890-4231-A-16-C MS	Matrix Spike	Total/NA	Solid	8015B NM	48107
890-4231-A-16-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48107

Prep Batch: 48107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4241-1	FS08	Total/NA	Solid	8015NM Prep	
890-4241-2	FS10	Total/NA	Solid	8015NM Prep	
890-4241-3	FS12	Total/NA	Solid	8015NM Prep	
890-4241-4	FS13	Total/NA	Solid	8015NM Prep	
890-4241-5	FS14	Total/NA	Solid	8015NM Prep	
890-4241-6	FS15	Total/NA	Solid	8015NM Prep	
890-4241-7	FS16	Total/NA	Solid	8015NM Prep	
890-4241-8	FS17	Total/NA	Solid	8015NM Prep	
890-4241-9	FS18	Total/NA	Solid	8015NM Prep	
890-4241-10	FS19	Total/NA	Solid	8015NM Prep	
890-4241-11	FS20	Total/NA	Solid	8015NM Prep	
MB 880-48107/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48107/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48107/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4231-A-16-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4231-A-16-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4241-1	FS08	Total/NA	Solid	8015 NM	
890-4241-2	FS10	Total/NA	Solid	8015 NM	
890-4241-3	FS12	Total/NA	Solid	8015 NM	
890-4241-4	FS13	Total/NA	Solid	8015 NM	
890-4241-5	FS14	Total/NA	Solid	8015 NM	
890-4241-6	FS15	Total/NA	Solid	8015 NM	
890-4241-7	FS16	Total/NA	Solid	8015 NM	
890-4241-8	FS17	Total/NA	Solid	8015 NM	
890-4241-9	FS18	Total/NA	Solid	8015 NM	
890-4241-10	FS19	Total/NA	Solid	8015 NM	
890-4241-11	FS20	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

HPLC/IC

Leach Batch: 48112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4241-1	FS08	Soluble	Solid	DI Leach	
890-4241-2	FS10	Soluble	Solid	DI Leach	
890-4241-3	FS12	Soluble	Solid	DI Leach	
890-4241-4	FS13	Soluble	Solid	DI Leach	
890-4241-5	FS14	Soluble	Solid	DI Leach	
890-4241-6	FS15	Soluble	Solid	DI Leach	
890-4241-7	FS16	Soluble	Solid	DI Leach	
890-4241-8	FS17	Soluble	Solid	DI Leach	
890-4241-9	FS18	Soluble	Solid	DI Leach	
890-4241-10	FS19	Soluble	Solid	DI Leach	
890-4241-11	FS20	Soluble	Solid	DI Leach	
MB 880-48112/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48112/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48112/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4241-10 MS	FS19	Soluble	Solid	DI Leach	
890-4241-10 MSD	FS19	Soluble	Solid	DI Leach	

Analysis Batch: 48113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4241-1	FS08	Soluble	Solid	300.0	48112
890-4241-2	FS10	Soluble	Solid	300.0	48112
890-4241-3	FS12	Soluble	Solid	300.0	48112
890-4241-4	FS13	Soluble	Solid	300.0	48112
890-4241-5	FS14	Soluble	Solid	300.0	48112
890-4241-6	FS15	Soluble	Solid	300.0	48112
890-4241-7	FS16	Soluble	Solid	300.0	48112
890-4241-8	FS17	Soluble	Solid	300.0	48112
890-4241-9	FS18	Soluble	Solid	300.0	48112
890-4241-10	FS19	Soluble	Solid	300.0	48112
890-4241-11	FS20	Soluble	Solid	300.0	48112
MB 880-48112/1-A	Method Blank	Soluble	Solid	300.0	48112
LCS 880-48112/2-A	Lab Control Sample	Soluble	Solid	300.0	48112
LCSD 880-48112/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48112
890-4241-10 MS	FS19	Soluble	Solid	300.0	48112
890-4241-10 MSD	FS19	Soluble	Solid	300.0	48112

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS08

Date Collected: 03/06/23 09:00

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-1

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			4.97 g	5 mL	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 12:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/10/23 17:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 00:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 12:55	SMC	EET MID

Client Sample ID: FS10

Date Collected: 03/06/23 09:10

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-2

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	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 14:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/10/23 17:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 00:49	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 12:59	SMC	EET MID

Client Sample ID: FS12

Date Collected: 03/06/23 11:20

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-3

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			5.02 g	5 mL	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 15:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/10/23 17:20	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 01:11	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 13:04	SMC	EET MID

Client Sample ID: FS13

Date Collected: 03/06/23 12:05

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-4

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	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 15:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/10/23 17:20	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS13

Date Collected: 03/06/23 12:05

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-4

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			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 01:32	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 13:09	SMC	EET MID

Client Sample ID: FS14

Date Collected: 03/06/23 12:10

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-5

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	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 17:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/14/23 09:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 01:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 13:24	SMC	EET MID

Client Sample ID: FS15

Date Collected: 03/06/23 11:35

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-6

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			4.97 g	5 mL	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/14/23 09:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 02:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 13:29	SMC	EET MID

Client Sample ID: FS16

Date Collected: 03/06/23 11:40

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-7

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			4.96 g	5 mL	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 17:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/14/23 09:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 02:59	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS16

Date Collected: 03/06/23 11:40

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-7

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			4.97 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 13:33	SMC	EET MID

Client Sample ID: FS17

Date Collected: 03/06/23 12:15

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 18:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/14/23 09:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 03:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 13:38	SMC	EET MID

Client Sample ID: FS18

Date Collected: 03/06/23 13:15

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-9

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			5.03 g	5 mL	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/14/23 09:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 03:42	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 13:43	SMC	EET MID

Client Sample ID: FS19

Date Collected: 03/06/23 13:20

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4241-10

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	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 18:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/14/23 09:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 04:04	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 13:48	SMC	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Client Sample ID: FS20

Lab Sample ID: 890-4241-11

Date Collected: 03/06/23 13:25

Matrix: Solid

Date Received: 03/06/23 15:03

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	48199	03/09/23 10:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48285	03/10/23 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48363	03/14/23 09:22	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48211	03/09/23 11:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48107	03/08/23 10:30	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48081	03/09/23 04:25	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48112	03/08/23 11:30	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48113	03/08/23 14:03	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: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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

Method Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

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: Tiger Compressor Station

Job ID: 890-4241-1
SDG: 03C1558149

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4241-1	FS08	Solid	03/06/23 09:00	03/06/23 15:03	4'
890-4241-2	FS10	Solid	03/06/23 09:10	03/06/23 15:03	4'
890-4241-3	FS12	Solid	03/06/23 11:20	03/06/23 15:03	4'
890-4241-4	FS13	Solid	03/06/23 12:05	03/06/23 15:03	4'
890-4241-5	FS14	Solid	03/06/23 12:10	03/06/23 15:03	4'
890-4241-6	FS15	Solid	03/06/23 11:35	03/06/23 15:03	4'
890-4241-7	FS16	Solid	03/06/23 11:40	03/06/23 15:03	4'
890-4241-8	FS17	Solid	03/06/23 12:15	03/06/23 15:03	4'
890-4241-9	FS18	Solid	03/06/23 13:15	03/06/23 15:03	4'
890-4241-10	FS19	Solid	03/06/23 13:20	03/06/23 15:03	4'
890-4241-11	FS20	Solid	03/06/23 13:25	03/06/23 15:03	4'

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-3440, 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

Chain of Custody

Work Order No: _____

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Project Manager:	Thomas Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Enselum, LLC	Company Name:	XTO Energy
Address:	3122 Nati Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmorrissey@enselum.com

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:	Tiger Compressor Station	Turn Around	☐ Routine ☒ Rush	Pres. Code	
Project Number:	33C1558149				
Project Location:	32.11807, -103.110896	Due Date:	24 hr		
Sampler's Name:	Mercedith Roberts	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:	7110007		
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Correction Factor:	-0.02		
Sample Custody Seals:	Yes ☒ No ☐ N/A	Temperature Reading:	5.2		
Total Containers:		Corrected Temperature:	5.0		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS08	S	3/6/23	0900	4'	C	1	X BTEX		None: NO	Incident #: NAPP2235638568
FS10			0910				X TPH		DI Water: H ₂ O	Cost Center: 2027031001
FS12			1120				X Chlorides		Cool: Cool	
FS13			1205						HCL: HC	
FS14			1210						H ₂ SO ₄ : H ₂	
FS15			1135						H ₃ PO ₄ : HP	
FS16			1140						NaHSO ₄ : NABIS	
FS17			1215						Na ₂ S ₂ O ₃ : NASO ₃	
FS18			1315						Zn Acetate+NaOH: Zn	
FS19			1320						NaOH+Ascorbic Acid: SANC	

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas T1 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Proctor</i>	<i>Die Gap</i>	3.6.23 1303			



Environment Testing

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

Chain of Custody

Work Order No:

www.xenco.com Page 4 of 4

Project Manager:	Tyanna Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensulum, LLC	Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlisbad, NM 88220	City, State ZIP:	Carlisbad, NM 88220
Phone:	337-257-8307	Email:	tmorrisse@ensulum.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: _____	

Tiger Compressor Station Turn Around						ANALYSIS REQUEST										Preservative Codes				
Project Name:	Tiger Compressor Station	Project Number:	03C1558149	☐ Routine	☒ Rush <th>Pest Code</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <th>None: NO</th> <th>DI Water: H₂O</th>	Pest Code												None: NO	DI Water: H ₂ O	
Project Location:	32.11807-103.90896	Due Date:	24 hr	TAT starts the day received by the lab, if received by 4:30pm				Cool: Cool	MeOH: Me											
Sampler's Name:	Mercalith Robert	Wet Ice:		Yes	No													HCL: HC	HNO ₃ : HN	
PO #:		Thermometer ID:		Yes	No													H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT		Temp Blank:		Yes	No													H ₃ PO ₄ : HP		
Samples Received Intact:	Yes	No	Correction Factor:														NaHSO ₄ : NABIS			
Cooler Custody Seals:	Yes	No	Temperature Holding:														Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:	Yes	No	Corrected Temperature:														Zn Acetate+NaOH: Zn			
Total Containers:																	NaOH+Ascorbic Acid: SAPC			
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTEX	TPH	Chlorides											Sample Comments
FS20	S	3/6/23	1325	4'	C	1	X	X	X											Incident #: MAPP2235v385v8
																				Cost Center: 2031031001
																				moderate sulfur

Total 2007 / 6010	2008 / 6020:	
8RCRA 13PPM	Al Sb As Ba Be B Cd Ca Cr Co Cu FePb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
TCPL/SPPL 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document is a relinquishing of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. A signed standard terms and conditions of service. Eurofins Xeno will be liable only for the costs 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, 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
		2			
		4			
		6			

Revoked Date: 08/25/2020 BAW 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4241-1

SDG Number: 03C1558149

Login Number: 4241

List Number: 1

Creator: Stutzman, Amanda

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: 890-4241-1
SDG Number: 03C1558149

Login Number: 4241
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/08/23 11:29 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	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 3/16/2023 6:23:13 PM

JOB DESCRIPTION

Tiger Compressor Station
SDG NUMBER 03C1558149

JOB NUMBER

890-4242-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
3/16/2023 6:23:13 PM

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

Client: Ensolum
Project/Site: Tiger Compressor Station

Laboratory Job ID: 890-4242-1
SDG: 03C1558149

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Definitions/Glossary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Job ID: 890-4242-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4242-1

Receipt

The samples were received on 3/6/2023 3:03 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 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SW05 (890-4242-1), SW06 (890-4242-2), SW07 (890-4242-3), SW08 (890-4242-4), SW09 (890-4242-5), SW10 (890-4242-6), SW11 (890-4242-7), SW12 (890-4242-8), FS07 (890-4242-9), FS09 (890-4242-10) and FS11 (890-4242-11).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SW06 (890-4242-2), SW07 (890-4242-3) and SW09 (890-4242-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW12 (890-4242-8). Evidence of matrix interferences is not obvious.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-48166 and analytical batch 880-48177 was outside the upper control limits.

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-48186 and 880-48186 and analytical batch 880-48242 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW05

Lab Sample ID: 890-4242-1

Date Collected: 03/06/23 08:35

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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		03/16/23 09:01	03/16/23 12:17	1
Toluene	0.00400		0.00200	mg/Kg		03/16/23 09:01	03/16/23 12:17	1
Ethylbenzene	0.00402		0.00200	mg/Kg		03/16/23 09:01	03/16/23 12:17	1
m-Xylene & p-Xylene	0.00996		0.00399	mg/Kg		03/16/23 09:01	03/16/23 12:17	1
o-Xylene	0.00458		0.00200	mg/Kg		03/16/23 09:01	03/16/23 12:17	1
Xylenes, Total	0.0145		0.00399	mg/Kg		03/16/23 09:01	03/16/23 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	03/16/23 09:01	03/16/23 12:17	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/16/23 09:01	03/16/23 12:17	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0226		0.00399	mg/Kg			03/16/23 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/10/23 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	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 11:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 11:11	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 11:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	03/08/23 17:08	03/09/23 11:11	1
o-Terphenyl	100		70 - 130	03/08/23 17:08	03/09/23 11:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.3	F1	5.01	mg/Kg			03/10/23 06:21	1

Client Sample ID: SW06

Lab Sample ID: 890-4242-2

Date Collected: 03/06/23 08:40

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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		03/16/23 09:01	03/16/23 12:37	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 12:37	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 12:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 12:37	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 12:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	03/16/23 09:01	03/16/23 12:37	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW06

Lab Sample ID: 890-4242-2

Date Collected: 03/06/23 08:40

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	72		70 - 130	03/16/23 09:01	03/16/23 12:37	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			03/16/23 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			03/10/23 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	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 12:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 12:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 12:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			03/08/23 17:08	03/09/23 12:15	1
o-Terphenyl	107		70 - 130			03/08/23 17:08	03/09/23 12:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		5.00	mg/Kg			03/10/23 06:39	1

Client Sample ID: SW07

Lab Sample ID: 890-4242-3

Date Collected: 03/06/23 08:45

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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		03/16/23 09:01	03/16/23 12:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 12:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 12:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 12:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 12:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		70 - 130	03/16/23 09:01	03/16/23 12:58	1
1,4-Difluorobenzene (Surr)	64	S1-	70 - 130	03/16/23 09:01	03/16/23 12:58	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			03/16/23 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/10/23 17:58	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW07

Lab Sample ID: 890-4242-3

Date Collected: 03/06/23 08:45

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

Method: SW846 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		03/08/23 17:08	03/09/23 12:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 12:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 12:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			03/08/23 17:08	03/09/23 12:36	1
o-Terphenyl	113		70 - 130			03/08/23 17:08	03/09/23 12:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		4.99	mg/Kg			03/10/23 06:45	1

Client Sample ID: SW08

Lab Sample ID: 890-4242-4

Date Collected: 03/06/23 11:05

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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		03/16/23 09:01	03/16/23 13:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 13:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 13:18	1
m-Xylene & p-Xylene	0.00691		0.00401	mg/Kg		03/16/23 09:01	03/16/23 13:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 13:18	1
Xylenes, Total	0.00691		0.00401	mg/Kg		03/16/23 09:01	03/16/23 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			03/16/23 09:01	03/16/23 13:18	1
1,4-Difluorobenzene (Surr)	85		70 - 130			03/16/23 09:01	03/16/23 13:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00691		0.00401	mg/Kg			03/16/23 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/10/23 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	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 12:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 12:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 12:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			03/08/23 17:08	03/09/23 12:57	1
o-Terphenyl	102		70 - 130			03/08/23 17:08	03/09/23 12:57	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW08

Lab Sample ID: 890-4242-4

Date Collected: 03/06/23 11:05

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	149		4.95	mg/Kg			03/10/23 06:51	1

Client Sample ID: SW09

Lab Sample ID: 890-4242-5

Date Collected: 03/06/23 11:10

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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		03/16/23 09:01	03/16/23 13:39	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 13:39	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 13:39	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 13:39	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 13:39	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130			03/16/23 09:01	03/16/23 13:39	1
1,4-Difluorobenzene (Surr)	55	S1-	70 - 130			03/16/23 09:01	03/16/23 13:39	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			03/16/23 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/10/23 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	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 13:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 13:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			03/08/23 17:08	03/09/23 13:18	1
o-Terphenyl	111		70 - 130			03/08/23 17:08	03/09/23 13:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	135		5.00	mg/Kg			03/10/23 06:58	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW10

Lab Sample ID: 890-4242-6

Date Collected: 03/06/23 11:15

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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		03/16/23 09:01	03/16/23 13:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 13:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 13:59	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/16/23 09:01	03/16/23 13:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 13:59	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/16/23 09:01	03/16/23 13:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	03/16/23 09:01	03/16/23 13:59	1
1,4-Difluorobenzene (Surr)	87		70 - 130	03/16/23 09:01	03/16/23 13:59	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			03/16/23 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			03/10/23 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	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 13:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	03/08/23 17:08	03/09/23 13:39	1
o-Terphenyl	112		70 - 130	03/08/23 17:08	03/09/23 13:39	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	121		5.00	mg/Kg			03/10/23 07:16	1

Client Sample ID: SW11

Lab Sample ID: 890-4242-7

Date Collected: 03/06/23 13:05

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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		03/16/23 09:01	03/16/23 14:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 14:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 14:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 14:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 14:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	03/16/23 09:01	03/16/23 14:20	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW11

Lab Sample ID: 890-4242-7

Date Collected: 03/06/23 13:05

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	03/16/23 09:01	03/16/23 14:20	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			03/16/23 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			03/10/23 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	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 14:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 14:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			03/08/23 17:08	03/09/23 14:02	1
o-Terphenyl	99		70 - 130			03/08/23 17:08	03/09/23 14:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	117		4.96	mg/Kg			03/10/23 07:22	1

Client Sample ID: SW12

Lab Sample ID: 890-4242-8

Date Collected: 03/06/23 13:10

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

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		03/16/23 09:01	03/16/23 14:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 14:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 14:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 14:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:01	03/16/23 14:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:01	03/16/23 14:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130			03/16/23 09:01	03/16/23 14:40	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130			03/16/23 09:01	03/16/23 14:40	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			03/16/23 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/10/23 17:58	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW12

Lab Sample ID: 890-4242-8

Date Collected: 03/06/23 13:10

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 0-4'

Method: SW846 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		03/08/23 17:08	03/09/23 14:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 14:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 14:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			03/08/23 17:08	03/09/23 14:23	1
o-Terphenyl	111		70 - 130			03/08/23 17:08	03/09/23 14:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	129		4.97	mg/Kg			03/10/23 07:28	1

Client Sample ID: FS07

Lab Sample ID: 890-4242-9

Date Collected: 03/06/23 08:55

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/16/23 09:01	03/16/23 15:01	1
Toluene	0.00358		0.00200	mg/Kg		03/16/23 09:01	03/16/23 15:01	1
Ethylbenzene	0.0226		0.00200	mg/Kg		03/16/23 09:01	03/16/23 15:01	1
m-Xylene & p-Xylene	0.0473		0.00399	mg/Kg		03/16/23 09:01	03/16/23 15:01	1
o-Xylene	0.0310		0.00200	mg/Kg		03/16/23 09:01	03/16/23 15:01	1
Xylenes, Total	0.0783		0.00399	mg/Kg		03/16/23 09:01	03/16/23 15:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			03/16/23 09:01	03/16/23 15:01	1
1,4-Difluorobenzene (Surr)	82		70 - 130			03/16/23 09:01	03/16/23 15:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.104		0.00399	mg/Kg			03/16/23 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/10/23 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	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 14:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 14:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 14:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			03/08/23 17:08	03/09/23 14:45	1
o-Terphenyl	109		70 - 130			03/08/23 17:08	03/09/23 14:45	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: FS07

Lab Sample ID: 890-4242-9

Date Collected: 03/06/23 08:55

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.8		5.00	mg/Kg			03/10/23 07:35	1

Client Sample ID: FS09

Lab Sample ID: 890-4242-10

Date Collected: 03/06/23 09:05

Matrix: Solid

Date Received: 03/06/23 15:03

Sample Depth: 4'

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		03/16/23 09:01	03/16/23 17:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 17:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 17:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/16/23 09:01	03/16/23 17:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 17:08	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/16/23 09:01	03/16/23 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			03/16/23 09:01	03/16/23 17:08	1
1,4-Difluorobenzene (Surr)	72		70 - 130			03/16/23 09:01	03/16/23 17:08	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			03/16/23 19:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/10/23 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	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 15:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 15:07	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/08/23 17:08	03/09/23 15:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			03/08/23 17:08	03/09/23 15:07	1
o-Terphenyl	107		70 - 130			03/08/23 17:08	03/09/23 15:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.2		4.99	mg/Kg			03/10/23 07:41	1

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Client Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: FS11
Date Collected: 03/06/23 09:15
Date Received: 03/06/23 15:03
Sample Depth: 4'

Lab Sample ID: 890-4242-11
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	-	03/16/23 09:01	03/16/23 17:29	1	
Toluene	<0.00199	U	0.00199	mg/Kg	-	03/16/23 09:01	03/16/23 17:29	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg	-	03/16/23 09:01	03/16/23 17:29	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	-	03/16/23 09:01	03/16/23 17:29	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg	-	03/16/23 09:01	03/16/23 17:29	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg	-	03/16/23 09:01	03/16/23 17:29	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	103		70 - 130			03/16/23 09:01	03/16/23 17:29	1	
1,4-Difluorobenzene (Surr)	76		70 - 130			03/16/23 09:01	03/16/23 17:29	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	-		03/16/23 19:15	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg	-		03/10/23 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	<49.9	U	49.9	mg/Kg	-	03/08/23 17:08	03/09/23 16:00	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	03/08/23 17:08	03/09/23 16:00	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	03/08/23 17:08	03/09/23 16:00	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	111		70 - 130			03/08/23 17:08	03/09/23 16:00	1	
o-Terphenyl	108		70 - 130			03/08/23 17:08	03/09/23 16:00	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	73.1	F1	4.95	mg/Kg	-		03/10/23 07:47	1	

Surrogate Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

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)
890-4242-1	SW05	73	93
890-4242-1 MS	SW05	111	112
890-4242-1 MSD	SW05	102	96
890-4242-2	SW06	69 S1-	72
890-4242-3	SW07	84	64 S1-
890-4242-4	SW08	89	85
890-4242-5	SW09	79	55 S1-
890-4242-6	SW10	116	87
890-4242-7	SW11	112	107
890-4242-8	SW12	82	68 S1-
890-4242-9	FS07	121	82
890-4242-10	FS09	92	72
890-4242-11	FS11	103	76
LCS 880-48712/1-A	Lab Control Sample	88	112
LCSD 880-48712/2-A	Lab Control Sample Dup	107	91
MB 880-48712/5-A	Method Blank	70	89
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)
890-4242-1	SW05	104	100
890-4242-1 MS	SW05	114	98
890-4242-1 MSD	SW05	113	96
890-4242-2	SW06	111	107
890-4242-3	SW07	116	113
890-4242-4	SW08	111	102
890-4242-5	SW09	115	111
890-4242-6	SW10	115	112
890-4242-7	SW11	102	99
890-4242-8	SW12	113	111
890-4242-9	FS07	113	109
890-4242-10	FS09	111	107
890-4242-11	FS11	111	108
LCS 880-48166/2-A	Lab Control Sample	108	102
LCSD 880-48166/3-A	Lab Control Sample Dup	102	97
MB 880-48166/1-A	Method Blank	143 S1+	147 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48712/5-A

Matrix: Solid

Analysis Batch: 48707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48712

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 11:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 11:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/16/23 09:01	03/16/23 11:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:01	03/16/23 11:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/16/23 09:01	03/16/23 11:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	03/16/23 09:01	03/16/23 11:55	1
1,4-Difluorobenzene (Surr)	89		70 - 130	03/16/23 09:01	03/16/23 11:55	1

Lab Sample ID: LCS 880-48712/1-A

Matrix: Solid

Analysis Batch: 48707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1130		mg/Kg		113	70 - 130
Toluene	0.100	0.09471		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.08669		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1820		mg/Kg		91	70 - 130
o-Xylene	0.100	0.08894		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: LCSD 880-48712/2-A

Matrix: Solid

Analysis Batch: 48707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48712

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09499		mg/Kg		95	70 - 130	17	35
Toluene	0.100	0.09326		mg/Kg		93	70 - 130	2	35
Ethylbenzene	0.100	0.09392		mg/Kg		94	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2082		mg/Kg		104	70 - 130	13	35
o-Xylene	0.100	0.1004		mg/Kg		100	70 - 130	12	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	91		70 - 130

Lab Sample ID: 890-4242-1 MS

Matrix: Solid

Analysis Batch: 48707

Client Sample ID: SW05

Prep Type: Total/NA

Prep Batch: 48712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.09699		mg/Kg		97	70 - 130
Toluene	0.00400		0.0998	0.09427		mg/Kg		90	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

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

Lab Sample ID: 890-4242-1 MS

Matrix: Solid

Analysis Batch: 48707

Client Sample ID: SW05

Prep Type: Total/NA

Prep Batch: 48712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.00402		0.0998	0.09534		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	0.00996		0.200	0.2169		mg/Kg		104	70 - 130
o-Xylene	0.00458		0.0998	0.1066		mg/Kg		102	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 890-4242-1 MSD

Matrix: Solid

Analysis Batch: 48707

Client Sample ID: SW05

Prep Type: Total/NA

Prep Batch: 48712

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	0.1015		mg/Kg		101	70 - 130	5	35
Toluene	0.00400		0.100	0.09431		mg/Kg		90	70 - 130	0	35
Ethylbenzene	0.00402		0.100	0.09591		mg/Kg		92	70 - 130	1	35
m-Xylene & p-Xylene	0.00996		0.200	0.2100		mg/Kg		100	70 - 130	3	35
o-Xylene	0.00458		0.100	0.1018		mg/Kg		97	70 - 130	5	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-48166/1-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 48166

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		03/08/23 17:08	03/09/23 08:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 08:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 08:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130	03/08/23 17:08	03/09/23 08:37	1
o-Terphenyl	147	S1+	70 - 130	03/08/23 17:08	03/09/23 08:37	1

Lab Sample ID: LCS 880-48166/2-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48166

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	1105		mg/Kg		110	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

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

Lab Sample ID: LCS 880-48166/2-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48166

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: LCSD 880-48166/3-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48166

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	997.4		mg/Kg		100	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	1050		mg/Kg		105	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-4242-1 MS

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: SW05

Prep Type: Total/NA

Prep Batch: 48166

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	998	1118		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	936.0		mg/Kg		91	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-4242-1 MSD

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: SW05

Prep Type: Total/NA

Prep Batch: 48166

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	1082		mg/Kg		105	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	922.0		mg/Kg		90	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	96		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48186/1-A

Matrix: Solid

Analysis Batch: 48242

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/10/23 06:02	1

Lab Sample ID: LCS 880-48186/2-A

Matrix: Solid

Analysis Batch: 48242

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	266.9		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-48186/3-A

Matrix: Solid

Analysis Batch: 48242

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	266.0		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 890-4242-1 MS

Matrix: Solid

Analysis Batch: 48242

Client Sample ID: SW05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	59.3	F1	251	347.6	F1	mg/Kg		115	90 - 110

Lab Sample ID: 890-4242-1 MSD

Matrix: Solid

Analysis Batch: 48242

Client Sample ID: SW05

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	59.3	F1	200	348.1	F1	mg/Kg		144	90 - 110	0	20

Lab Sample ID: 890-4242-11 MS

Matrix: Solid

Analysis Batch: 48242

Client Sample ID: FS11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	73.1	F1	248	315.8		mg/Kg		98	90 - 110

Lab Sample ID: 890-4242-11 MSD

Matrix: Solid

Analysis Batch: 48242

Client Sample ID: FS11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	73.1	F1	198	316.7	F1	mg/Kg		123	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

GC VOA

Analysis Batch: 48707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4242-1	SW05	Total/NA	Solid	8021B	48712
890-4242-2	SW06	Total/NA	Solid	8021B	48712
890-4242-3	SW07	Total/NA	Solid	8021B	48712
890-4242-4	SW08	Total/NA	Solid	8021B	48712
890-4242-5	SW09	Total/NA	Solid	8021B	48712
890-4242-6	SW10	Total/NA	Solid	8021B	48712
890-4242-7	SW11	Total/NA	Solid	8021B	48712
890-4242-8	SW12	Total/NA	Solid	8021B	48712
890-4242-9	FS07	Total/NA	Solid	8021B	48712
890-4242-10	FS09	Total/NA	Solid	8021B	48712
890-4242-11	FS11	Total/NA	Solid	8021B	48712
MB 880-48712/5-A	Method Blank	Total/NA	Solid	8021B	48712
LCS 880-48712/1-A	Lab Control Sample	Total/NA	Solid	8021B	48712
LCSD 880-48712/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48712
890-4242-1 MS	SW05	Total/NA	Solid	8021B	48712
890-4242-1 MSD	SW05	Total/NA	Solid	8021B	48712

Prep Batch: 48712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4242-1	SW05	Total/NA	Solid	5035	
890-4242-2	SW06	Total/NA	Solid	5035	
890-4242-3	SW07	Total/NA	Solid	5035	
890-4242-4	SW08	Total/NA	Solid	5035	
890-4242-5	SW09	Total/NA	Solid	5035	
890-4242-6	SW10	Total/NA	Solid	5035	
890-4242-7	SW11	Total/NA	Solid	5035	
890-4242-8	SW12	Total/NA	Solid	5035	
890-4242-9	FS07	Total/NA	Solid	5035	
890-4242-10	FS09	Total/NA	Solid	5035	
890-4242-11	FS11	Total/NA	Solid	5035	
MB 880-48712/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48712/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48712/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4242-1 MS	SW05	Total/NA	Solid	5035	
890-4242-1 MSD	SW05	Total/NA	Solid	5035	

Analysis Batch: 48798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4242-1	SW05	Total/NA	Solid	Total BTEX	
890-4242-2	SW06	Total/NA	Solid	Total BTEX	
890-4242-3	SW07	Total/NA	Solid	Total BTEX	
890-4242-4	SW08	Total/NA	Solid	Total BTEX	
890-4242-5	SW09	Total/NA	Solid	Total BTEX	
890-4242-6	SW10	Total/NA	Solid	Total BTEX	
890-4242-7	SW11	Total/NA	Solid	Total BTEX	
890-4242-8	SW12	Total/NA	Solid	Total BTEX	
890-4242-9	FS07	Total/NA	Solid	Total BTEX	
890-4242-10	FS09	Total/NA	Solid	Total BTEX	
890-4242-11	FS11	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

GC Semi VOA

Prep Batch: 48166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4242-1	SW05	Total/NA	Solid	8015NM Prep	
890-4242-2	SW06	Total/NA	Solid	8015NM Prep	
890-4242-3	SW07	Total/NA	Solid	8015NM Prep	
890-4242-4	SW08	Total/NA	Solid	8015NM Prep	
890-4242-5	SW09	Total/NA	Solid	8015NM Prep	
890-4242-6	SW10	Total/NA	Solid	8015NM Prep	
890-4242-7	SW11	Total/NA	Solid	8015NM Prep	
890-4242-8	SW12	Total/NA	Solid	8015NM Prep	
890-4242-9	FS07	Total/NA	Solid	8015NM Prep	
890-4242-10	FS09	Total/NA	Solid	8015NM Prep	
890-4242-11	FS11	Total/NA	Solid	8015NM Prep	
MB 880-48166/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48166/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4242-1 MS	SW05	Total/NA	Solid	8015NM Prep	
890-4242-1 MSD	SW05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4242-1	SW05	Total/NA	Solid	8015B NM	48166
890-4242-2	SW06	Total/NA	Solid	8015B NM	48166
890-4242-3	SW07	Total/NA	Solid	8015B NM	48166
890-4242-4	SW08	Total/NA	Solid	8015B NM	48166
890-4242-5	SW09	Total/NA	Solid	8015B NM	48166
890-4242-6	SW10	Total/NA	Solid	8015B NM	48166
890-4242-7	SW11	Total/NA	Solid	8015B NM	48166
890-4242-8	SW12	Total/NA	Solid	8015B NM	48166
890-4242-9	FS07	Total/NA	Solid	8015B NM	48166
890-4242-10	FS09	Total/NA	Solid	8015B NM	48166
890-4242-11	FS11	Total/NA	Solid	8015B NM	48166
MB 880-48166/1-A	Method Blank	Total/NA	Solid	8015B NM	48166
LCS 880-48166/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48166
LCSD 880-48166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48166
890-4242-1 MS	SW05	Total/NA	Solid	8015B NM	48166
890-4242-1 MSD	SW05	Total/NA	Solid	8015B NM	48166

Analysis Batch: 48371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4242-1	SW05	Total/NA	Solid	8015 NM	
890-4242-2	SW06	Total/NA	Solid	8015 NM	
890-4242-3	SW07	Total/NA	Solid	8015 NM	
890-4242-4	SW08	Total/NA	Solid	8015 NM	
890-4242-5	SW09	Total/NA	Solid	8015 NM	
890-4242-6	SW10	Total/NA	Solid	8015 NM	
890-4242-7	SW11	Total/NA	Solid	8015 NM	
890-4242-8	SW12	Total/NA	Solid	8015 NM	
890-4242-9	FS07	Total/NA	Solid	8015 NM	
890-4242-10	FS09	Total/NA	Solid	8015 NM	
890-4242-11	FS11	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

HPLC/IC

Leach Batch: 48186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4242-1	SW05	Soluble	Solid	DI Leach	
890-4242-2	SW06	Soluble	Solid	DI Leach	
890-4242-3	SW07	Soluble	Solid	DI Leach	
890-4242-4	SW08	Soluble	Solid	DI Leach	
890-4242-5	SW09	Soluble	Solid	DI Leach	
890-4242-6	SW10	Soluble	Solid	DI Leach	
890-4242-7	SW11	Soluble	Solid	DI Leach	
890-4242-8	SW12	Soluble	Solid	DI Leach	
890-4242-9	FS07	Soluble	Solid	DI Leach	
890-4242-10	FS09	Soluble	Solid	DI Leach	
890-4242-11	FS11	Soluble	Solid	DI Leach	
MB 880-48186/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48186/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48186/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4242-1 MS	SW05	Soluble	Solid	DI Leach	
890-4242-1 MSD	SW05	Soluble	Solid	DI Leach	
890-4242-11 MS	FS11	Soluble	Solid	DI Leach	
890-4242-11 MSD	FS11	Soluble	Solid	DI Leach	

Analysis Batch: 48242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4242-1	SW05	Soluble	Solid	300.0	48186
890-4242-2	SW06	Soluble	Solid	300.0	48186
890-4242-3	SW07	Soluble	Solid	300.0	48186
890-4242-4	SW08	Soluble	Solid	300.0	48186
890-4242-5	SW09	Soluble	Solid	300.0	48186
890-4242-6	SW10	Soluble	Solid	300.0	48186
890-4242-7	SW11	Soluble	Solid	300.0	48186
890-4242-8	SW12	Soluble	Solid	300.0	48186
890-4242-9	FS07	Soluble	Solid	300.0	48186
890-4242-10	FS09	Soluble	Solid	300.0	48186
890-4242-11	FS11	Soluble	Solid	300.0	48186
MB 880-48186/1-A	Method Blank	Soluble	Solid	300.0	48186
LCS 880-48186/2-A	Lab Control Sample	Soluble	Solid	300.0	48186
LCSD 880-48186/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48186
890-4242-1 MS	SW05	Soluble	Solid	300.0	48186
890-4242-1 MSD	SW05	Soluble	Solid	300.0	48186
890-4242-11 MS	FS11	Soluble	Solid	300.0	48186
890-4242-11 MSD	FS11	Soluble	Solid	300.0	48186

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW05

Date Collected: 03/06/23 08:35

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-1

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	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 12:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 11:11	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 06:21	CH	EET MID

Client Sample ID: SW06

Date Collected: 03/06/23 08:40

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 12:15	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 06:39	CH	EET MID

Client Sample ID: SW07

Date Collected: 03/06/23 08:45

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-3

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	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 12:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 06:45	CH	EET MID

Client Sample ID: SW08

Date Collected: 03/06/23 11:05

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-4

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			4.99 g	5 mL	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW08

Date Collected: 03/06/23 11:05

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-4

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			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 12:57	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 06:51	CH	EET MID

Client Sample ID: SW09

Date Collected: 03/06/23 11:10

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-5

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	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 13:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 06:58	CH	EET MID

Client Sample ID: SW10

Date Collected: 03/06/23 11:15

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 13:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 13:39	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 07:16	CH	EET MID

Client Sample ID: SW11

Date Collected: 03/06/23 13:05

Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-7

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			5.02 g	5 mL	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 14:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 14:02	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: SW11
Date Collected: 03/06/23 13:05
Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-7
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	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 07:22	CH	EET MID

Client Sample ID: SW12
Date Collected: 03/06/23 13:10
Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-8
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	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 14:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 14:23	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 07:28	CH	EET MID

Client Sample ID: FS07
Date Collected: 03/06/23 08:55
Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-9
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	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 15:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 14:45	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 07:35	CH	EET MID

Client Sample ID: FS09
Date Collected: 03/06/23 09:05
Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 15:07	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 07:41	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Client Sample ID: FS11
Date Collected: 03/06/23 09:15
Date Received: 03/06/23 15:03

Lab Sample ID: 890-4242-11
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			5.02 g	5 mL	48712	03/16/23 09:01	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48707	03/16/23 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48798	03/16/23 19:15	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48371	03/10/23 17:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48166	03/08/23 17:08	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 16:00	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 07:47	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: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

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

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

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

Method Summary

Client: Ensolum
Project/Site: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

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: Tiger Compressor Station

Job ID: 890-4242-1
SDG: 03C1558149

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4242-1	SW05	Solid	03/06/23 08:35	03/06/23 15:03	0-4'
890-4242-2	SW06	Solid	03/06/23 08:40	03/06/23 15:03	0-4'
890-4242-3	SW07	Solid	03/06/23 08:45	03/06/23 15:03	0-4'
890-4242-4	SW08	Solid	03/06/23 11:05	03/06/23 15:03	0-4'
890-4242-5	SW09	Solid	03/06/23 11:10	03/06/23 15:03	0-4'
890-4242-6	SW10	Solid	03/06/23 11:15	03/06/23 15:03	0-4'
890-4242-7	SW11	Solid	03/06/23 13:05	03/06/23 15:03	0-4'
890-4242-8	SW12	Solid	03/06/23 13:10	03/06/23 15:03	0-4'
890-4242-9	FS07	Solid	03/06/23 08:55	03/06/23 15:03	4'
890-4242-10	FS09	Solid	03/06/23 09:05	03/06/23 15:03	4'
890-4242-11	FS11	Solid	03/06/23 09:15	03/06/23 15:03	4'

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



Environment Testing

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

Chain of Custody

Work Order No:

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Project Manager:	Tacewa Manissey		Bill to: (if different)	Garrett Green
Company Name:	Enselum, LLC		Company Name:	XTO Energy
Address:	3122 Nat'l Parks Hwy		Address:	3104 E Greene St
City, State ZIP:	Cansawad, NM 88220		City, State ZIP:	Carlsbad, NM 88220
Phone:	337.257.8307	Email:	tmanissey@enselum.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: <u>Tiger Compressor Station</u>				Turn Around	
Project Number: <u>0301558149</u>				☒ Routine ☐ Rush	
Project Location: <u>32.11807, -103.90896</u>				Due Date: _____	
Sampler's Name: <u>Mercadith Roberts</u>				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 In tact: ☒ Yes ☐ No		Thermometer ID: <u>TM1003</u>			
Cooler Custody Seals: ☒ Yes ☐ No <u>N/A</u>		Correction Factor: <u>-0.2</u>			
Sample Custody Seals: ☒ Yes ☐ No <u>N/A</u>		Temperature Reading: <u>5.2</u>			
Total Containers: _____		Corrected Temperature: <u>5.0</u>			
Parameters					
Pres. Code					
ANALYSIS REQUEST					
Preservative Codes					
None: NO		DI Water: H ₂ O			
Cool: Cool		MeOH: Me			
HCL: HC		HNO ₃ : HN			
H ₂ SO ₄ : H ₂		NaOH: Na			
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₅ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SAPC					

[illegible]

Total 2000.7 / 6010	200.8 / 6020:	
8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed	TCPL / SPLP 6010 : 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471

(Notice: Signature of this document is relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenocon, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenocon will be liable only for the costs 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 Xenocon. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenocon, but not analyzed. These terms will be enforced unless previously negotiated.)

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Phelps</i>	<i>Dueby</i>	3.10.23 15:23			

Rev'd Date: 08/05/2020 Rev: 2020.2



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

Chain of Custody

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum LLC	Company Name:	X TO Energy
Address:	3122 Nat'l Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	337-257-8307	Email:	tmorrissey@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:	Tiger Compressor Station Turn Around	Pres. Code	
Project Number:	03C1558149	☒ Routine ☐ Rush	
Project Location:	32.11801, -103.90896	Due Date:	
Sampler's Name:	Mercedith Robert	TAT starts the day received by the lab, if received by 4:30pm	
P.O. #:			
SAMPLE RECEIPT	Temp Blank: Yes No	Wet Ice: Yes No	Parameters
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS11	S	3/16/23	0915	4	C	1	X BTEX X Chlorides X TPH	None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SARC	Incident #: NAPP2235638568 Cost Center: 2027031001 mmercedith@ensolum.com

Total 2007 / 6010 2008 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>Mercedith Robert</i>	<i>Garrett Green</i>				

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4242-1

SDG Number: 03C1558149

Login Number: 4242

List Number: 1

Creator: Stutzman, Amanda

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: 890-4242-1

SDG Number: 03C1558149

Login Number: 4242

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/08/23 11:29 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	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/14/2024 2:29:23 PM

JOB DESCRIPTION

TIGER COMPRESSION STATION
03C1558149

JOB NUMBER

890-6095-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
2/14/2024 2:29:23 PM

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

Client: Ensolum
Project/Site: TIGER COMPRESSON STATION

Laboratory Job ID: 890-6095-1
SDG: 03C1558149

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Definitions/Glossary

Client: Ensolum
Project/Site: TIGER COMPRESSON STATION

Job ID: 890-6095-1
SDG: 03C1558149

Qualifiers

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

Case Narrative

Client: Ensolum
Project: TIGER COMPRESSON STATION

Job ID: 890-6095-1

Job ID: 890-6095-1

Eurofins Carlsbad

Job Narrative 890-6095-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 2/1/2024 2:40 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 4.8°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS09 (890-6095-1), SS10 (890-6095-2), SS11 (890-6095-3), SS12 (890-6095-4), SS13 (890-6095-5) and SS14 (890-6095-6).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-73011 recovered under the lower control limit for Ethylbenzene, m-Xylene & p-Xylene 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 samples were outside control limits: SS09 (890-6095-1), SS10 (890-6095-2) and SS14 (890-6095-6). 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 and precision for preparation batch 880-73000 and analytical batch 880-73011 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-72499 and analytical batch 880-72796 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-6100-A-21-E) and (890-6100-A-21-F MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-72499 and analytical batch 880-72796 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.

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Client Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

Client Sample ID: SS09

Lab Sample ID: 890-6095-1

Date Collected: 02/01/24 09:40

Matrix: Solid

Date Received: 02/01/24 14:40

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		02/13/24 08:16	02/13/24 18:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/13/24 08:16	02/13/24 18:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/13/24 08:16	02/13/24 18:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/13/24 08:16	02/13/24 18:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/13/24 08:16	02/13/24 18:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/24 08:16	02/13/24 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	02/13/24 08:16	02/13/24 18:07	1
1,4-Difluorobenzene (Surr)	118		70 - 130	02/13/24 08:16	02/13/24 18:07	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			02/13/24 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			02/11/24 02:04	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	<50.4	U	50.4	mg/Kg		02/06/24 12:37	02/11/24 02:04	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		02/06/24 12:37	02/11/24 02:04	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		02/06/24 12:37	02/11/24 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	02/06/24 12:37	02/11/24 02:04	1
o-Terphenyl	95		70 - 130	02/06/24 12:37	02/11/24 02:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		4.98	mg/Kg			02/06/24 21:25	1

Client Sample ID: SS10

Lab Sample ID: 890-6095-2

Date Collected: 02/01/24 09:55

Matrix: Solid

Date Received: 02/01/24 14:40

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		02/13/24 08:16	02/13/24 18:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 18:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 18:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/13/24 08:16	02/13/24 18:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 18:27	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/13/24 08:16	02/13/24 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	205	S1+	70 - 130	02/13/24 08:16	02/13/24 18:27	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSON STATION

Job ID: 890-6095-1
SDG: 03C1558149

Client Sample ID: SS10

Lab Sample ID: 890-6095-2

Date Collected: 02/01/24 09:55

Matrix: Solid

Date Received: 02/01/24 14:40

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	123		70 - 130	02/13/24 08:16	02/13/24 18:27	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			02/13/24 18:27	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			02/11/24 02:25	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	<50.5	U	50.5	mg/Kg		02/06/24 12:37	02/11/24 02:25	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		02/06/24 12:37	02/11/24 02:25	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		02/06/24 12:37	02/11/24 02:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			02/06/24 12:37	02/11/24 02:25	1
o-Terphenyl	91		70 - 130			02/06/24 12:37	02/11/24 02:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.3		5.02	mg/Kg			02/06/24 21:45	1

Client Sample ID: SS11

Lab Sample ID: 890-6095-3

Date Collected: 02/01/24 10:10

Matrix: Solid

Date Received: 02/01/24 14:40

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		02/13/24 08:16	02/13/24 18:48	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/13/24 08:16	02/13/24 18:48	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/13/24 08:16	02/13/24 18:48	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/13/24 08:16	02/13/24 18:48	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/13/24 08:16	02/13/24 18:48	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/13/24 08:16	02/13/24 18:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	02/13/24 08:16	02/13/24 18:48	1
1,4-Difluorobenzene (Surr)	116		70 - 130	02/13/24 08:16	02/13/24 18:48	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			02/13/24 18:48	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			02/11/24 02:47	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

Client Sample ID: SS11

Lab Sample ID: 890-6095-3

Date Collected: 02/01/24 10:10

Matrix: Solid

Date Received: 02/01/24 14:40

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		02/06/24 12:37	02/11/24 02:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		02/06/24 12:37	02/11/24 02:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		02/06/24 12:37	02/11/24 02:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			02/06/24 12:37	02/11/24 02:47	1
o-Terphenyl	115		70 - 130			02/06/24 12:37	02/11/24 02:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	93.5		5.00	mg/Kg			02/06/24 21:52	1

Client Sample ID: SS12

Lab Sample ID: 890-6095-4

Date Collected: 02/01/24 10:30

Matrix: Solid

Date Received: 02/01/24 14:40

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		02/13/24 08:16	02/13/24 19:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 19:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 19:08	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		02/13/24 08:16	02/13/24 19:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 19:08	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		02/13/24 08:16	02/13/24 19:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			02/13/24 08:16	02/13/24 19:08	1
1,4-Difluorobenzene (Surr)	120		70 - 130			02/13/24 08:16	02/13/24 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			02/13/24 19:08	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			02/11/24 03:08	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		02/06/24 12:37	02/11/24 03:08	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/06/24 12:37	02/11/24 03:08	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/06/24 12:37	02/11/24 03:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			02/06/24 12:37	02/11/24 03:08	1
o-Terphenyl	112		70 - 130			02/06/24 12:37	02/11/24 03:08	1

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Client Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

Client Sample ID: SS12

Lab Sample ID: 890-6095-4

Date Collected: 02/01/24 10:30

Matrix: Solid

Date Received: 02/01/24 14:40

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	328		5.01	mg/Kg			02/06/24 21:59	1

Client Sample ID: SS13

Lab Sample ID: 890-6095-5

Date Collected: 02/01/24 10:45

Matrix: Solid

Date Received: 02/01/24 14:40

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		02/13/24 08:16	02/13/24 19:29	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/13/24 08:16	02/13/24 19:29	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/13/24 08:16	02/13/24 19:29	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/13/24 08:16	02/13/24 19:29	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/13/24 08:16	02/13/24 19:29	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/24 08:16	02/13/24 19:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			02/13/24 08:16	02/13/24 19:29	1
1,4-Difluorobenzene (Surr)	117		70 - 130			02/13/24 08:16	02/13/24 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			02/13/24 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			02/11/24 03:29	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	<49.9	U	49.9	mg/Kg		02/06/24 12:37	02/11/24 03:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/06/24 12:37	02/11/24 03:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/06/24 12:37	02/11/24 03:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			02/06/24 12:37	02/11/24 03:29	1
o-Terphenyl	94		70 - 130			02/06/24 12:37	02/11/24 03:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	414		5.05	mg/Kg			02/06/24 22:06	1

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Client Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

Client Sample ID: SS14

Lab Sample ID: 890-6095-6

Date Collected: 02/01/24 10:50

Matrix: Solid

Date Received: 02/01/24 14:40

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		02/13/24 08:16	02/13/24 19:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		02/13/24 08:16	02/13/24 19:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		02/13/24 08:16	02/13/24 19:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/13/24 08:16	02/13/24 19:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		02/13/24 08:16	02/13/24 19:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/13/24 08:16	02/13/24 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130	02/13/24 08:16	02/13/24 19:49	1
1,4-Difluorobenzene (Surr)	119		70 - 130	02/13/24 08:16	02/13/24 19:49	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			02/13/24 19:49	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			02/11/24 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	<49.8	U	49.8	mg/Kg		02/06/24 12:37	02/11/24 03:50	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		02/06/24 12:37	02/11/24 03:50	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		02/06/24 12:37	02/11/24 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	02/06/24 12:37	02/11/24 03:50	1
o-Terphenyl	118		70 - 130	02/06/24 12:37	02/11/24 03:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156		4.97	mg/Kg			02/06/24 22:26	1

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Surrogate Summary

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

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)
880-39121-A-1-C MS	Matrix Spike	126	124
880-39121-A-1-D MSD	Matrix Spike Duplicate	94	110
890-6095-1	SS09	145 S1+	118
890-6095-2	SS10	205 S1+	123
890-6095-3	SS11	106	116
890-6095-4	SS12	94	120
890-6095-5	SS13	102	117
890-6095-6	SS14	140 S1+	119
LCS 880-73000/1-A	Lab Control Sample	102	102
LCSD 880-73000/2-A	Lab Control Sample Dup	94	106
MB 880-73000/5-A	Method Blank	124	123
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)
890-6095-1	SS09	93	95
890-6095-2	SS10	89	91
890-6095-3	SS11	113	115
890-6095-4	SS12	110	112
890-6095-5	SS13	92	94
890-6095-6	SS14	115	118
890-6100-A-21-F MS	Matrix Spike	70	62 S1-
890-6100-A-21-G MSD	Matrix Spike Duplicate	97	87
LCS 880-72499/2-A	Lab Control Sample	103	101
LCSD 880-72499/3-A	Lab Control Sample Dup	100	97
MB 880-72499/1-A	Method Blank	168 S1+	181 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-73000/5-A						Client Sample ID: Method Blank				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 73011						Prep Batch: 73000				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Benzene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 12:44	1		
Toluene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 12:44	1		
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 12:44	1		
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/13/24 08:16	02/13/24 12:44	1		
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/13/24 08:16	02/13/24 12:44	1		
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/13/24 08:16	02/13/24 12:44	1		
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac		
4-Bromofluorobenzene (Surr)	124		70 - 130			02/13/24 08:16	02/13/24 12:44	1		
1,4-Difluorobenzene (Surr)	123		70 - 130			02/13/24 08:16	02/13/24 12:44	1		

Lab Sample ID: LCS 880-73000/1-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Total/NA					
Analysis Batch: 73011						Prep Batch: 73000					
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene			0.100	0.1058		mg/Kg		106	70 - 130		
Toluene			0.100	0.1053		mg/Kg		105	70 - 130		
Ethylbenzene			0.100	0.1024		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2273		mg/Kg		114	70 - 130		
o-Xylene			0.100	0.09816		mg/Kg		98	70 - 130		
				LCS	LCS						
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		102		70 - 130							
1,4-Difluorobenzene (Surr)		102		70 - 130							

Lab Sample ID: LCSD 880-73000/2-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 73011						Prep Batch: 73000				
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1107		mg/Kg		111	70 - 130	5	35
Toluene		0.100	0.1037		mg/Kg		104	70 - 130	2	35
Ethylbenzene		0.100	0.09334		mg/Kg		93	70 - 130	9	35
m-Xylene & p-Xylene		0.200	0.2028		mg/Kg		101	70 - 130	11	35
o-Xylene		0.100	0.08899		mg/Kg		89	70 - 130	10	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	94		70 - 130							
1,4-Difluorobenzene (Surr)	106		70 - 130							

Lab Sample ID: 880-39121-A-1-C MS						Client Sample ID: Matrix Spike			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 73011						Prep Batch: 73000			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0996	0.1169		mg/Kg		117	70 - 130
Toluene	<0.00200	U	0.0996	0.07349		mg/Kg		74	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

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

Lab Sample ID: 880-39121-A-1-C MS
Matrix: Solid
Analysis Batch: 73011

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 73000

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U F1	0.0996	0.06748	F1	mg/Kg		67	70 - 130
m-Xylene & p-Xylene	<0.00401	U F2	0.199	0.2536		mg/Kg		127	70 - 130
o-Xylene	<0.00200	U	0.0996	0.1154		mg/Kg		116	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	126		70 - 130						
1,4-Difluorobenzene (Surr)	124		70 - 130						

Lab Sample ID: 880-39121-A-1-D MSD
Matrix: Solid
Analysis Batch: 73011

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 73000

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1012		mg/Kg		102	70 - 130	14	35
Toluene	<0.00200	U	0.0990	0.07156		mg/Kg		72	70 - 130	3	35
Ethylbenzene	<0.00200	U F1	0.0990	0.04770	F1	mg/Kg		47	70 - 130	34	35
m-Xylene & p-Xylene	<0.00401	U F2	0.198	0.1642	F2	mg/Kg		83	70 - 130	43	35
o-Xylene	<0.00200	U	0.0990	0.08797		mg/Kg		89	70 - 130	27	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	94		70 - 130								
1,4-Difluorobenzene (Surr)	110		70 - 130								

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

Lab Sample ID: MB 880-72499/1-A
Matrix: Solid
Analysis Batch: 72796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 72499

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		02/06/24 12:37	02/10/24 18:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/06/24 12:37	02/10/24 18:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/06/24 12:37	02/10/24 18:47	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	168	S1+	70 - 130	02/06/24 12:37	02/10/24 18:47	1		
o-Terphenyl	181	S1+	70 - 130	02/06/24 12:37	02/10/24 18:47	1		

Lab Sample ID: LCS 880-72499/2-A
Matrix: Solid
Analysis Batch: 72796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72499

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	921.2		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)	1000	898.6		mg/Kg		90	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

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

Lab Sample ID: LCS 880-72499/2-A
Matrix: Solid
Analysis Batch: 72796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 72499

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-72499/3-A
Matrix: Solid
Analysis Batch: 72796

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 72499

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	915.9		mg/Kg		92	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	892.7		mg/Kg		89	70 - 130	1	20
Surrogate		LCSD %Recovery	LCSD Qualifier	Limits					
1-Chlorooctane		100		70 - 130					
o-Terphenyl		97		70 - 130					

Lab Sample ID: 890-6100-A-21-F MS
Matrix: Solid
Analysis Batch: 72796

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 72499

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1102		mg/Kg		106	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.6	U F2 F1	1010	659.5	F1	mg/Kg		63	70 - 130		
Surrogate		MS %Recovery	MS Qualifier	Limits							
1-Chlorooctane		70		70 - 130							
o-Terphenyl		62	S1-	70 - 130							

Lab Sample ID: 890-6100-A-21-G MSD
Matrix: Solid
Analysis Batch: 72796

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 72499

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	<49.6	U	1010	980.1		mg/Kg		94	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.6	U F2 F1	1010	937.3	F2	mg/Kg		91	70 - 130	35	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1-Chlorooctane		97		70 - 130							
o-Terphenyl		87		70 - 130							

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QC Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-72305/1-A										Client Sample ID: Method Blank	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 72467											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<5.00	U	5.00	mg/Kg			02/06/24 21:05	1			
Lab Sample ID: LCS 880-72305/2-A										Client Sample ID: Lab Control Sample	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 72467											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	250	255.0		mg/Kg		102	90 - 110				
Lab Sample ID: LCSD 880-72305/3-A										Client Sample ID: Lab Control Sample Dup	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 72467											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	250	254.3		mg/Kg		102	90 - 110	0	20		
Lab Sample ID: 890-6095-1 MS										Client Sample ID: SS09	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 72467											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	115		249	367.9		mg/Kg		101	90 - 110		
Lab Sample ID: 890-6095-1 MSD										Client Sample ID: SS09	
Matrix: Solid										Prep Type: Soluble	
Analysis Batch: 72467											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	115		249	364.4		mg/Kg		100	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

GC VOA

Prep Batch: 73000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6095-1	SS09	Total/NA	Solid	5035	
890-6095-2	SS10	Total/NA	Solid	5035	
890-6095-3	SS11	Total/NA	Solid	5035	
890-6095-4	SS12	Total/NA	Solid	5035	
890-6095-5	SS13	Total/NA	Solid	5035	
890-6095-6	SS14	Total/NA	Solid	5035	
MB 880-73000/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-73000/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-73000/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-39121-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-39121-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 73011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6095-1	SS09	Total/NA	Solid	8021B	73000
890-6095-2	SS10	Total/NA	Solid	8021B	73000
890-6095-3	SS11	Total/NA	Solid	8021B	73000
890-6095-4	SS12	Total/NA	Solid	8021B	73000
890-6095-5	SS13	Total/NA	Solid	8021B	73000
890-6095-6	SS14	Total/NA	Solid	8021B	73000
MB 880-73000/5-A	Method Blank	Total/NA	Solid	8021B	73000
LCS 880-73000/1-A	Lab Control Sample	Total/NA	Solid	8021B	73000
LCSD 880-73000/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	73000
880-39121-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	73000
880-39121-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	73000

Analysis Batch: 73149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6095-1	SS09	Total/NA	Solid	Total BTEX	
890-6095-2	SS10	Total/NA	Solid	Total BTEX	
890-6095-3	SS11	Total/NA	Solid	Total BTEX	
890-6095-4	SS12	Total/NA	Solid	Total BTEX	
890-6095-5	SS13	Total/NA	Solid	Total BTEX	
890-6095-6	SS14	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 72499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6095-1	SS09	Total/NA	Solid	8015NM Prep	
890-6095-2	SS10	Total/NA	Solid	8015NM Prep	
890-6095-3	SS11	Total/NA	Solid	8015NM Prep	
890-6095-4	SS12	Total/NA	Solid	8015NM Prep	
890-6095-5	SS13	Total/NA	Solid	8015NM Prep	
890-6095-6	SS14	Total/NA	Solid	8015NM Prep	
MB 880-72499/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-72499/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-72499/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6100-A-21-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6100-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

GC Semi VOA

Analysis Batch: 72796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6095-1	SS09	Total/NA	Solid	8015B NM	72499
890-6095-2	SS10	Total/NA	Solid	8015B NM	72499
890-6095-3	SS11	Total/NA	Solid	8015B NM	72499
890-6095-4	SS12	Total/NA	Solid	8015B NM	72499
890-6095-5	SS13	Total/NA	Solid	8015B NM	72499
890-6095-6	SS14	Total/NA	Solid	8015B NM	72499
MB 880-72499/1-A	Method Blank	Total/NA	Solid	8015B NM	72499
LCS 880-72499/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	72499
LCSD 880-72499/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	72499
890-6100-A-21-F MS	Matrix Spike	Total/NA	Solid	8015B NM	72499
890-6100-A-21-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	72499

Analysis Batch: 72971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6095-1	SS09	Total/NA	Solid	8015 NM	
890-6095-2	SS10	Total/NA	Solid	8015 NM	
890-6095-3	SS11	Total/NA	Solid	8015 NM	
890-6095-4	SS12	Total/NA	Solid	8015 NM	
890-6095-5	SS13	Total/NA	Solid	8015 NM	
890-6095-6	SS14	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 72305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6095-1	SS09	Soluble	Solid	DI Leach	
890-6095-2	SS10	Soluble	Solid	DI Leach	
890-6095-3	SS11	Soluble	Solid	DI Leach	
890-6095-4	SS12	Soluble	Solid	DI Leach	
890-6095-5	SS13	Soluble	Solid	DI Leach	
890-6095-6	SS14	Soluble	Solid	DI Leach	
MB 880-72305/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-72305/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-72305/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6095-1 MS	SS09	Soluble	Solid	DI Leach	
890-6095-1 MSD	SS09	Soluble	Solid	DI Leach	

Analysis Batch: 72467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6095-1	SS09	Soluble	Solid	300.0	72305
890-6095-2	SS10	Soluble	Solid	300.0	72305
890-6095-3	SS11	Soluble	Solid	300.0	72305
890-6095-4	SS12	Soluble	Solid	300.0	72305
890-6095-5	SS13	Soluble	Solid	300.0	72305
890-6095-6	SS14	Soluble	Solid	300.0	72305
MB 880-72305/1-A	Method Blank	Soluble	Solid	300.0	72305
LCS 880-72305/2-A	Lab Control Sample	Soluble	Solid	300.0	72305
LCSD 880-72305/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	72305
890-6095-1 MS	SS09	Soluble	Solid	300.0	72305
890-6095-1 MSD	SS09	Soluble	Solid	300.0	72305

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Lab Chronicle

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

Client Sample ID: SS09

Lab Sample ID: 890-6095-1

Date Collected: 02/01/24 09:40

Matrix: Solid

Date Received: 02/01/24 14:40

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	73000	02/13/24 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73011	02/13/24 18:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73149	02/13/24 18:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			72971	02/11/24 02:04	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	72499	02/06/24 12:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72796	02/11/24 02:04	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	72305	02/04/24 12:41	CH	EET MID
Soluble	Analysis	300.0		1			72467	02/06/24 21:25	CH	EET MID

Client Sample ID: SS10

Lab Sample ID: 890-6095-2

Date Collected: 02/01/24 09:55

Matrix: Solid

Date Received: 02/01/24 14:40

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	73000	02/13/24 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73011	02/13/24 18:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73149	02/13/24 18:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			72971	02/11/24 02:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	72499	02/06/24 12:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72796	02/11/24 02:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	72305	02/04/24 12:41	CH	EET MID
Soluble	Analysis	300.0		1			72467	02/06/24 21:45	CH	EET MID

Client Sample ID: SS11

Lab Sample ID: 890-6095-3

Date Collected: 02/01/24 10:10

Matrix: Solid

Date Received: 02/01/24 14:40

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	73000	02/13/24 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73011	02/13/24 18:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73149	02/13/24 18:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			72971	02/11/24 02:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	72499	02/06/24 12:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72796	02/11/24 02:47	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	72305	02/04/24 12:41	CH	EET MID
Soluble	Analysis	300.0		1			72467	02/06/24 21:52	CH	EET MID

Client Sample ID: SS12

Lab Sample ID: 890-6095-4

Date Collected: 02/01/24 10:30

Matrix: Solid

Date Received: 02/01/24 14:40

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	73000	02/13/24 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73011	02/13/24 19:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73149	02/13/24 19:08	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

Client Sample ID: SS12

Date Collected: 02/01/24 10:30

Date Received: 02/01/24 14:40

Lab Sample ID: 890-6095-4

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			72971	02/11/24 03:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	72499	02/06/24 12:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72796	02/11/24 03:08	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	72305	02/04/24 12:41	CH	EET MID
Soluble	Analysis	300.0		1			72467	02/06/24 21:59	CH	EET MID

Client Sample ID: SS13

Date Collected: 02/01/24 10:45

Date Received: 02/01/24 14:40

Lab Sample ID: 890-6095-5

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	73000	02/13/24 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73011	02/13/24 19:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73149	02/13/24 19:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			72971	02/11/24 03:29	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	72499	02/06/24 12:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72796	02/11/24 03:29	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	72305	02/04/24 12:41	CH	EET MID
Soluble	Analysis	300.0		1			72467	02/06/24 22:06	CH	EET MID

Client Sample ID: SS14

Date Collected: 02/01/24 10:50

Date Received: 02/01/24 14:40

Lab Sample ID: 890-6095-6

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	73000	02/13/24 08:16	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	73011	02/13/24 19:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			73149	02/13/24 19:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			72971	02/11/24 03:50	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	72499	02/06/24 12:37	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72796	02/11/24 03:50	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	72305	02/04/24 12:41	CH	EET MID
Soluble	Analysis	300.0		1			72467	02/06/24 22:26	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: TIGER COMPRESSON STATION

Job ID: 890-6095-1
SDG: 03C1558149

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: TIGER COMPRESSON STATION

Job ID: 890-6095-1
SDG: 03C1558149

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: TIGER COMPRESSION STATION

Job ID: 890-6095-1
SDG: 03C1558149

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6095-1	SS09	Solid	02/01/24 09:40	02/01/24 14:40	0.5
890-6095-2	SS10	Solid	02/01/24 09:55	02/01/24 14:40	0.5
890-6095-3	SS11	Solid	02/01/24 10:10	02/01/24 14:40	0.5
890-6095-4	SS12	Solid	02/01/24 10:30	02/01/24 14:40	0.5
890-6095-5	SS13	Solid	02/01/24 10:45	02/01/24 14:40	0.5
890-6095-6	SS14	Solid	02/01/24 10:50	02/01/24 14:40	0.5

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Chain of Custody

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 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	3122 National Parks Hwy	Company Name:	XTO Energy
Address:	Ensolum, LLC	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(337)	Email:	Garrett.Green@ExxonMobil.com

Project Name:	Tiger Compressor Station	Turn Around	
Project Number:	0361558149	☒ Routine ☐ Rush	
Project Location:	32.11807 - 103.90896	Due Date:	5 days
Sampler's Name:	Mariah O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
P.O. #:			

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
SS09	S	2/12/24	9:40	0.5'	G	1	Chlorides			None: NO	DI Water: H ₂ O
SS10	S		9:55	0.5'			TPH			Cool: Cool	MeOH: Me
SS11	S		10:10	0.5'			BTEX			HCL: HC	HNO ₃ : HN
SS12	S		10:30	0.5'						H ₂ SO ₄ : H ₂	NaOH: Na
SS13	S		10:45	0.5'						H ₃ PO ₄ : HP	
SS14	S		10:50	0.5'						NaHSO ₄ : NABIS	
										Na ₂ S ₂ O ₅ : NaSO ₃	
										Zn Acetate+NaOH: Zn	
										NaOH+Ascorbic Acid: SPC	

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	2:40 2/12			

Revised Date: 08/25/2020 Rev. 2020.2

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6095-1

SDG Number: 03C1558149

Login Number: 6095
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: 890-6095-1

SDG Number: 03C1558149

Login Number: 6095

List Source: Eurofins Midland

List Number: 2

List Creation: 02/05/24 08:29 AM

Creator: Rodriguez, Leticia

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



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 2/29/2024 10:19:02 AM

JOB DESCRIPTION

TIGER COMPRESSOR STATION
03C1558149

JOB NUMBER

890-6239-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

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

Authorization



Generated
2/29/2024 10:19:02 AM

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

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Laboratory Job ID: 890-6239-1
SDG: 03C1558149

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Definitions/Glossary

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

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
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: TIGER COMPRESSOR STATION

Job ID: 890-6239-1

Job ID: 890-6239-1

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Job Narrative 890-6239-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 2/21/2024 3:23 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 0.2°C.

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SW 13 (890-6239-1).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74049 and analytical batch 880-74123 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-74123 recovered above the upper control limit for Toluene and Ethylbenzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-74123/20).

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-74099 and analytical batch 880-74227 was outside the upper control limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-74099 and analytical batch 880-74227 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

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.

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Client Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

Client Sample ID: SW 13

Lab Sample ID: 890-6239-1

Date Collected: 02/21/24 10:40

Matrix: Solid

Date Received: 02/21/24 15:23

Sample Depth: 0 - 1.5'

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		02/26/24 13:52	02/28/24 08:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		02/26/24 13:52	02/28/24 08:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		02/26/24 13:52	02/28/24 08:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		02/26/24 13:52	02/28/24 08:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		02/26/24 13:52	02/28/24 08:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		02/26/24 13:52	02/28/24 08:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	02/26/24 13:52	02/28/24 08:38	1
1,4-Difluorobenzene (Surr)	111		70 - 130	02/26/24 13:52	02/28/24 08:38	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			02/28/24 08:38	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			02/28/24 16:20	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		02/26/24 17:14	02/28/24 16:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		02/26/24 17:14	02/28/24 16:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/26/24 17:14	02/28/24 16:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	02/26/24 17:14	02/28/24 16:20	1
o-Terphenyl	92		70 - 130	02/26/24 17:14	02/28/24 16:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		4.96	mg/Kg			02/23/24 16:54	1

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Surrogate Summary

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

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)
890-6233-A-1-C MS	Matrix Spike	124	100
890-6233-A-1-D MSD	Matrix Spike Duplicate	108	102
890-6239-1	SW 13	109	111
LCS 880-74049/1-A	Lab Control Sample	100	99
LCSD 880-74049/2-A	Lab Control Sample Dup	114	96
MB 880-74021/5-A	Method Blank	129	129
MB 880-74049/5-A	Method Blank	135 S1+	130
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)
880-39711-A-21-H MS	Matrix Spike	96	75
880-39711-A-21-I MSD	Matrix Spike Duplicate	95	72
890-6239-1	SW 13	106	92
LCS 880-74099/2-A	Lab Control Sample	117	118
LCSD 880-74099/3-A	Lab Control Sample Dup	95	90
MB 880-74099/1-A	Method Blank	194 S1+	173 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74021/5-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 74123						Prep Batch: 74021			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		02/26/24 11:29	02/27/24 14:15	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/26/24 11:29	02/27/24 14:15	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/26/24 11:29	02/27/24 14:15	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/26/24 11:29	02/27/24 14:15	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/26/24 11:29	02/27/24 14:15	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/26/24 11:29	02/27/24 14:15	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	129		70 - 130			02/26/24 11:29	02/27/24 14:15	1	
1,4-Difluorobenzene (Surr)	129		70 - 130			02/26/24 11:29	02/27/24 14:15	1	

Lab Sample ID: MB 880-74049/5-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 74123						Prep Batch: 74049			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		02/26/24 13:52	02/28/24 01:53	1	
Toluene	<0.00200	U	0.00200	mg/Kg		02/26/24 13:52	02/28/24 01:53	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/26/24 13:52	02/28/24 01:53	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/26/24 13:52	02/28/24 01:53	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/26/24 13:52	02/28/24 01:53	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/26/24 13:52	02/28/24 01:53	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130			02/26/24 13:52	02/28/24 01:53	1	
1,4-Difluorobenzene (Surr)	130		70 - 130			02/26/24 13:52	02/28/24 01:53	1	

Lab Sample ID: LCS 880-74049/1-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 74123						Prep Batch: 74049			
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	0.1063		mg/Kg		106	70 - 130		
Ethylbenzene	0.100	0.1247		mg/Kg		125	70 - 130		
m-Xylene & p-Xylene	0.200	0.2118		mg/Kg		106	70 - 130		
o-Xylene	0.100	0.1039		mg/Kg		104	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 880-74049/2-A						Client Sample ID: Lab Control Sample Dup			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 74123						Prep Batch: 74049			
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD Limit
Benzene	0.100	0.1153		mg/Kg		115	70 - 130		1 35

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QC Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

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

Lab Sample ID: LCSD 880-74049/2-A

Matrix: Solid

Analysis Batch: 74123

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74049

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.1097		mg/Kg		110	70 - 130		3	35
Ethylbenzene	0.100	0.1165		mg/Kg		116	70 - 130		7	35
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130		4	35
o-Xylene	0.100	0.1155		mg/Kg		116	70 - 130		11	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-6233-A-1-C MS

Matrix: Solid

Analysis Batch: 74123

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 74049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00199	U	0.101	0.09725		mg/Kg		96	70 - 130	
Toluene	<0.00199	U	0.101	0.09650		mg/Kg		96	70 - 130	
Ethylbenzene	<0.00199	U	0.101	0.1129		mg/Kg		112	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2162		mg/Kg		107	70 - 130	
o-Xylene	<0.00199	U	0.101	0.09884		mg/Kg		98	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-6233-A-1-D MSD

Matrix: Solid

Analysis Batch: 74123

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 74049

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00199	U	0.100	0.1073		mg/Kg		107	70 - 130		10	35
Toluene	<0.00199	U	0.100	0.1022		mg/Kg		102	70 - 130		6	35
Ethylbenzene	<0.00199	U	0.100	0.1029		mg/Kg		103	70 - 130		9	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1780		mg/Kg		89	70 - 130		19	35
o-Xylene	<0.00199	U	0.100	0.09361		mg/Kg		93	70 - 130		5	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-74099/1-A

Matrix: Solid

Analysis Batch: 74227

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74099

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/26/24 17:13	02/28/24 08:25	1

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QC Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

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

Lab Sample ID: MB 880-74099/1-A

Matrix: Solid

Analysis Batch: 74227

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 74099

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/26/24 17:13	02/28/24 08:25	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/26/24 17:13	02/28/24 08:25	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	194	S1+	70 - 130			02/26/24 17:13	02/28/24 08:25	1
o-Terphenyl	173	S1+	70 - 130			02/26/24 17:13	02/28/24 08:25	1

Lab Sample ID: LCS 880-74099/2-A

Matrix: Solid

Analysis Batch: 74227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 74099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	825.1		mg/Kg		83	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	991.3		mg/Kg		99	70 - 130	
Surrogate		LCS	LCS					
		%Recovery	Qualifier					
1-Chlorooctane		117					70 - 130	
o-Terphenyl		118					70 - 130	

Lab Sample ID: LCSD 880-74099/3-A

Matrix: Solid

Analysis Batch: 74227

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 74099

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1012		mg/Kg		101	70 - 130	20	20
Diesel Range Organics (Over C10-C28)	1000	784.6	*1	mg/Kg		78	70 - 130	23	20
Surrogate		LCSD	LCSD						
		%Recovery	Qualifier						
1-Chlorooctane		95					70 - 130		
o-Terphenyl		90					70 - 130		

Lab Sample ID: 880-39711-A-21-H MS

Matrix: Solid

Analysis Batch: 74227

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 74099

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
	Result	Qualifier								
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	844.3		mg/Kg		81	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.1	U *1	1010	969.2		mg/Kg		94	70 - 130	
Surrogate	MS	MS								
	%Recovery	Qualifier								
1-Chlorooctane	96								70 - 130	
o-Terphenyl	75								70 - 130	

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QC Sample Results

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

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

Lab Sample ID: 880-39711-A-21-I MSD

Matrix: Solid

Analysis Batch: 74227

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 74099

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	890.2		mg/Kg		86	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.1	U *1	1010	937.9		mg/Kg		91	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	95		70 - 130								
o-Terphenyl	72		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-73903/1-A

Matrix: Solid

Analysis Batch: 73936

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			02/23/24 14:37	1

Lab Sample ID: LCS 880-73903/2-A

Matrix: Solid

Analysis Batch: 73936

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 880-73903/3-A

Matrix: Solid

Analysis Batch: 73936

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	259.8		mg/Kg		104	90 - 110	0	20

Lab Sample ID: 890-6243-A-1-B MS

Matrix: Solid

Analysis Batch: 73936

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	25.3		252	281.8		mg/Kg		102	90 - 110

Lab Sample ID: 890-6243-A-1-C MSD

Matrix: Solid

Analysis Batch: 73936

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	25.3		252	266.6		mg/Kg		96	90 - 110	6	20

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QC Association Summary

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

GC VOA

Prep Batch: 74021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74021/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 74049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6239-1	SW 13	Total/NA	Solid	5035	
MB 880-74049/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74049/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74049/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6233-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6233-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 74123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6239-1	SW 13	Total/NA	Solid	8021B	74049
MB 880-74021/5-A	Method Blank	Total/NA	Solid	8021B	74021
MB 880-74049/5-A	Method Blank	Total/NA	Solid	8021B	74049
LCS 880-74049/1-A	Lab Control Sample	Total/NA	Solid	8021B	74049
LCSD 880-74049/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74049
890-6233-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	74049
890-6233-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74049

Analysis Batch: 74284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6239-1	SW 13	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 74099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6239-1	SW 13	Total/NA	Solid	8015NM Prep	
MB 880-74099/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74099/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74099/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-39711-A-21-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-39711-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6239-1	SW 13	Total/NA	Solid	8015B NM	74099
MB 880-74099/1-A	Method Blank	Total/NA	Solid	8015B NM	74099
LCS 880-74099/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74099
LCSD 880-74099/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74099
880-39711-A-21-H MS	Matrix Spike	Total/NA	Solid	8015B NM	74099
880-39711-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	74099

Analysis Batch: 74353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6239-1	SW 13	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

HPLC/IC

Leach Batch: 73903

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6239-1	SW 13	Soluble	Solid	DI Leach	
MB 880-73903/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-73903/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-73903/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6243-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-6243-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 73936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6239-1	SW 13	Soluble	Solid	300.0	73903
MB 880-73903/1-A	Method Blank	Soluble	Solid	300.0	73903
LCS 880-73903/2-A	Lab Control Sample	Soluble	Solid	300.0	73903
LCSD 880-73903/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	73903
890-6243-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	73903
890-6243-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	73903

Lab Chronicle

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

Client Sample ID: SW 13

Date Collected: 02/21/24 10:40

Date Received: 02/21/24 15:23

Lab Sample ID: 890-6239-1

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			4.97 g	5 mL	74049	02/26/24 13:52	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74123	02/28/24 08:38	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74284	02/28/24 08:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			74353	02/28/24 16:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74099	02/26/24 17:14	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74227	02/28/24 16:20	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	73903	02/23/24 07:43	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	73936	02/23/24 16:54	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: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

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: TIGER COMPRESSOR STATION

Job ID: 890-6239-1
SDG: 03C1558149

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6239-1	SW 13	Solid	02/21/24 10:40	02/21/24 15:23	0 - 1.5'

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



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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Tacoma Morrissey	Bill to: (if different)	Garrett Green
Company Name:	Ensolum	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Green St.
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	303-887-2946	Email:	Garrett.Green@ExxonMobil.com

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:	Tiger Compressor Station	Turn Around	Prax.	ANALYSIS REQUEST	Preservative Codes
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Project Number:	03C1558149	☒ Routine ☐ Rush			None: NO DI Water: H ₂ O
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Project Location:	Connor Whitman	Due Date:			Cool: Cool MeOH: Me
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Sampler's Name:	Connor Whitman	TAT starts the day received by the lab, if received by 4:30pm			HCL: HC HNO ₃ : HN
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PO #:		Wet Ice:	Yes No		H ₂ SO ₄ : H ₂ NaOH: Na
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SAMPLE RECEIPT	Temp Blank:	(Yes/No)			H ₃ PO ₄ : HP
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Samples Received Inact:	Yes No	Thermometer ID:			NaHSO ₄ : NABIS
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Cooler Custody Seals:	Yes No	Correction Factor:			Na ₂ S ₂ O ₃ : NaSO ₃
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Sample Custody Seals:	Yes No	Temperature Reading:			Zn Acetate+NaOH: Zn
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Total Containers:		Corrected Temperature:			NaOH+Ascorbic Acid: SAPC
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Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLORIDES (EPA: 3000.0)	TPH (8015)	BTEX (8021)	Sample Comments
SW13	S	2/21/2024	10:40	0-1.5	Comp	1	X	X	X	
890-6239 Chain of Custody 										
Incident ID: nAPP2235638568										
Cost Center: 2027031001										
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 Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>CHH</i>	<i>Garrett Green</i>	1523 2/21			
1					
3					
5					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6239-1

SDG Number: 03C1558149

Login Number: 6239

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: 890-6239-1

SDG Number: 03C1558149

Login Number: 6239

List Source: Eurofins Midland

List Number: 2

List Creation: 02/23/24 10:47 AM

Creator: Rodriguez, Leticia

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



APPENDIX E

NMOCD Notifications

From: [Green, Garrett J](#)
To: [Enviro, OCD, EMNRD](#); [Bratcher, Michael, EMNRD](#); [Harimon, Jocelyn, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Cc: [DelawareSpills /SM](#); [Tacoma Morrissey](#)
Subject: XTO - Sampling Notification (Week of 3/6/23 - 3/10/23)
Date: Friday, March 3, 2023 9:21:05 AM

[**EXTERNAL EMAIL **]

All,

XTO plans to complete final sampling activities at the following site the week of Mar 6, 2023.

- Tiger Compressor Station / nAPP2235638568

Thank you,

Garrett Green

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

From: [Collins, Melanie](#)
To: [ocd.enviro \(ocd.enviro@emnrd.nm.gov\)](#); [Bratcher, Michael, EMNRD \(mike.bratcher@emnrd.nm.gov\)](#); [Hamlet, Robert, EMNRD \(Robert.Hamlet@emnrd.nm.gov\)](#); [Harimon, Jocelyn, EMNRD \(Jocelyn.Harimon@emnrd.nm.gov\)](#)
Cc: [Tacoma Morrissey](#); [Green, Garrett J](#)
Subject: XTO - Sampling Notification (Week of 2/27/23 - 3/3/23)
Date: Thursday, February 23, 2023 11:39:15 AM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Feb 27, 2023.

- Row 2 / NAPP2304148392
- Remuda 25N 704H / nAPP2226341236
- Pickett Draw Federal 1 / NAB1919955454
- ROW 4 Muy Wayno / nAPP2209039217
- Tiger Compressor Station / nAPP2235638568

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 402780

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 402780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2235638568
Incident Name	NAPP2235638568 TIGER COMPRESSOR STATION @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	TIGER COMPRESSOR STATION
Date Release Discovered	12/17/2022
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

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

Crude Oil Released (bbls) Details	Cause: Equipment Failure Other (Specify) Crude Oil Released: 21 BBL Recovered: 0 BBL Lost: 21 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
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)	A 1/2" nipple on the LACT cracked at the threads, releasing fluid to the pad surface. No fluid was recovered; a third-party contractor has been retained for remediation purposes.

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QUESTIONS, Page 2

Action 402780

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 402780
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 11/13/2024
--	---

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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, Page 3

Action 402780

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 402780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Attached Document
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 1000 (ft.) and ½ (mi.)
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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between ½ and 1 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	577
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6620
GRO+DRO (EPA SW-846 Method 8015M)	6620
BTEX (EPA SW-846 Method 8021B or 8260B)	213
Benzene (EPA SW-846 Method 8021B or 8260B)	3
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	02/03/2023
On what date will (or did) the final sampling or liner inspection occur	02/21/2024
On what date will (or was) the remediation complete(d)	03/03/2023
What is the estimated surface area (in square feet) that will be reclaimed	3670
What is the estimated volume (in cubic yards) that will be reclaimed	488
What is the estimated surface area (in square feet) that will be remediated	3670
What is the estimated volume (in cubic yards) that will be remediated	488
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 402780

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 402780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	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.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 11/13/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 5

Action 402780

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 402780
	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, Page 6

Action 402780

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 402780
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	315245
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/21/2024
What was the (estimated) number of samples that were to be gathered	22
What was the sampling surface area in square feet	4400

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	3670
What was the total volume (cubic yards) remediated	488
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	3670
What was the total volume (in cubic yards) reclaimed	488
Summarize any additional remediation activities not included by answers (above)	On December 17, 2022, a 0.5-inch nipple on the Lease Automatic Custody Transfer (LACT) unit cracked at the threads, releasing 21 barrels (bbls) of crude oil onto the pad surface. The fluid flowed from the pad into the pasture, where it pooled. No free-standing fluid was recovered. Site assessment and excavation activities were conducted at the Site to address the December 17, 2022, release of crude oil. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement, where applicable. Based on the soil sample analytical results, no further remediation was required. XTO backfilled the on-pad excavation and pasture excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved BLM seed mixture. Post backfill photographs are included in Appendix B. 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 release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater and address all deficiencies as noted in the original Closure Request denial response. As such, XTO respectfully requests closure for Incident Number NAPP2235638568.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Kailee Smith Title: Regulatory Analyst Email: kailee.smith@exxonmobil.com Date: 11/13/2024

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Action 402780

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 402780
	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 402780

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 402780
	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 #NAPP2235638568 TIGER COMPRESSOR STATION, thank you. This Remediation Closure Report is approved.	12/19/2024