



June 3, 2024

New Mexico Oil Conservation Division

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

**Re: Closure Request
PLUC 1 Recycle Facility
Incident Number NAPP2316047464
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the PLUC 1 Recycle Facility (Site). The excavation and soil sampling activities were conducted in accordance with an approved *Remediation Work Plan (Work Plan)* to address impacts to soil resulting from a release of produced water at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number NAPP2316047464.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 15, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.21356°, -103.86041°) and is associated with oil and gas exploration and production operations on federal land managed by the Bureau of Land Management (BLM).

On May 29, 2023, mechanical failure on a pump flange resulted in the release of 58 barrels (bbls) of produced water onto a pipeline right-of-way (ROW). No fluids were recovered. XTO immediately reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on May 30, 2023, and submitted a Release Notification Form C-141 (Form C-141) on June 9, 2023. The release was assigned Incident Number NAPP2316047464.

Ensolum conducted Site assessment and delineation activities and presented the results in the *Work Plan*. The *Work Plan* was submitted on November 20, 2023 and approved by the NMOCD on March 26, 2024. The *Work Plan* proposed excavation of impacted soil identified during delineation activities. Delineation soil sample locations are depicted on Figure 2 and laboratory analytical results are summarized on Table 1. The *Work Plan* is included in Appendix A.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The *Work Plan* detailed the Site characterization to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Based on the results of the Site Characterization detailed in the approved *Work Plan*, the following Closure Criteria apply:

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- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES

Ensolum personnel were onsite between February 26, 2024 through February 28, 2024 to excavate impacted soil according to the approved *Work Plan*. Excavation activities were performed by use of heavy equipment. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Once field screening indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and sidewall of the excavation extent. 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. Confirmation soil samples FS01 through FS46 were collected from the floor of the excavation at depths ranging from 0.5 feet to 4 feet bgs. Confirmation soil samples SW01 through SW21 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The confirmation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 3.

During the excavation, additional boreholes were advanced via hand auger to ensure full vertical and lateral delineation around the point-of-release. Delineation boreholes BH07 through BH10 were advanced to a total depth of 4 feet bgs. Delineation soil samples were collected from each pothole at depths ranging from 0.5 feet to 4 feet bgs. Soil from the delineation boreholes was field screened for VOCs and chloride. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. The additional borehole delineation soil sample locations are depicted on Figure 2.

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 Environmental Testing (Eurofins) in Carlsbad, New Mexico or to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0 or SM4500Cl-B.

On April 16, 2024, Ensolum personnel returned to the Site to oversee the excavation of impacted soil located in the vicinity of confirmation floor soil samples FS26 and FS38, collected at 2 feet bgs and 4 feet bgs, respectively. Heavy equipment was utilized to complete the excavation to an additional foot. Following the removal of the soil, confirmation floor soil samples FS26A and FS38A were collected at 3 feet bgs and 5 feet bgs, respectively. The confirmation soil samples were collected and handled as described above and submitted to Cardinal. The confirmation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 3. Photographic documentation of the final excavation extent is provided in Appendix C.

The final excavation extent measured approximately 8,630 square feet. A total of approximately 800 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and disposed of at the R360 Landfill Disposal Facility in Hobbs, New Mexico. The excavation

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has been backfilled with material purchased locally and the Site has been recontoured to match pre-existing site conditions. Photographic documentation of the backfill is included in the Photographic Log in Appendix C.

LABORATORY ANALYTICAL RESULTS

Delineation soil samples BH02 through BH06 vertically delineated the release at depths ranging from 1-foot bgs to 4 feet bgs. Delineation soil sample BH03 was above closure criteria at the time of *Work Plan* approval. Final vertical delineation at this sample point was confirmed through confirmation soil sample FS38A collected at 5 feet bgs. Delineation soil samples BH07 through BH10 and SS07 through SS12 laterally delineated the release. Delineation soil samples SS01 and SS01a were also used to laterally delineate the release. All laboratory analytical results for the delineation samples at their total depth, excluding BH03, indicated concentrations for all COCs were compliant with Closure Criteria.

Laboratory analytical results for all final confirmation floor and sidewall soil samples indicated concentrations for all COCs were compliant with the Closure Criteria. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

CLOSURE REQUEST

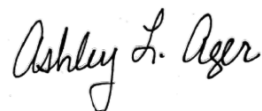
Excavation activities were conducted at the Site in accordance with the approved *Work Plan* to address the May 29, 2023 release of produced water. Laboratory analytical results for the final confirmation soil samples indicate concentrations of all COCs were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required.

Excavation of soil has removed impacts exceeding the Closure Criteria at the Site. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests remediation closure for Incident Number NAPP2316047464. Following approval of the *Closure Request*, XTO will complete reclamation activities and submit a *Reclamation Report*. If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Tracy Hillard
Project Manager



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

cc: Amy Ruth, XTO
Amanda Garcia, XTO
BLM

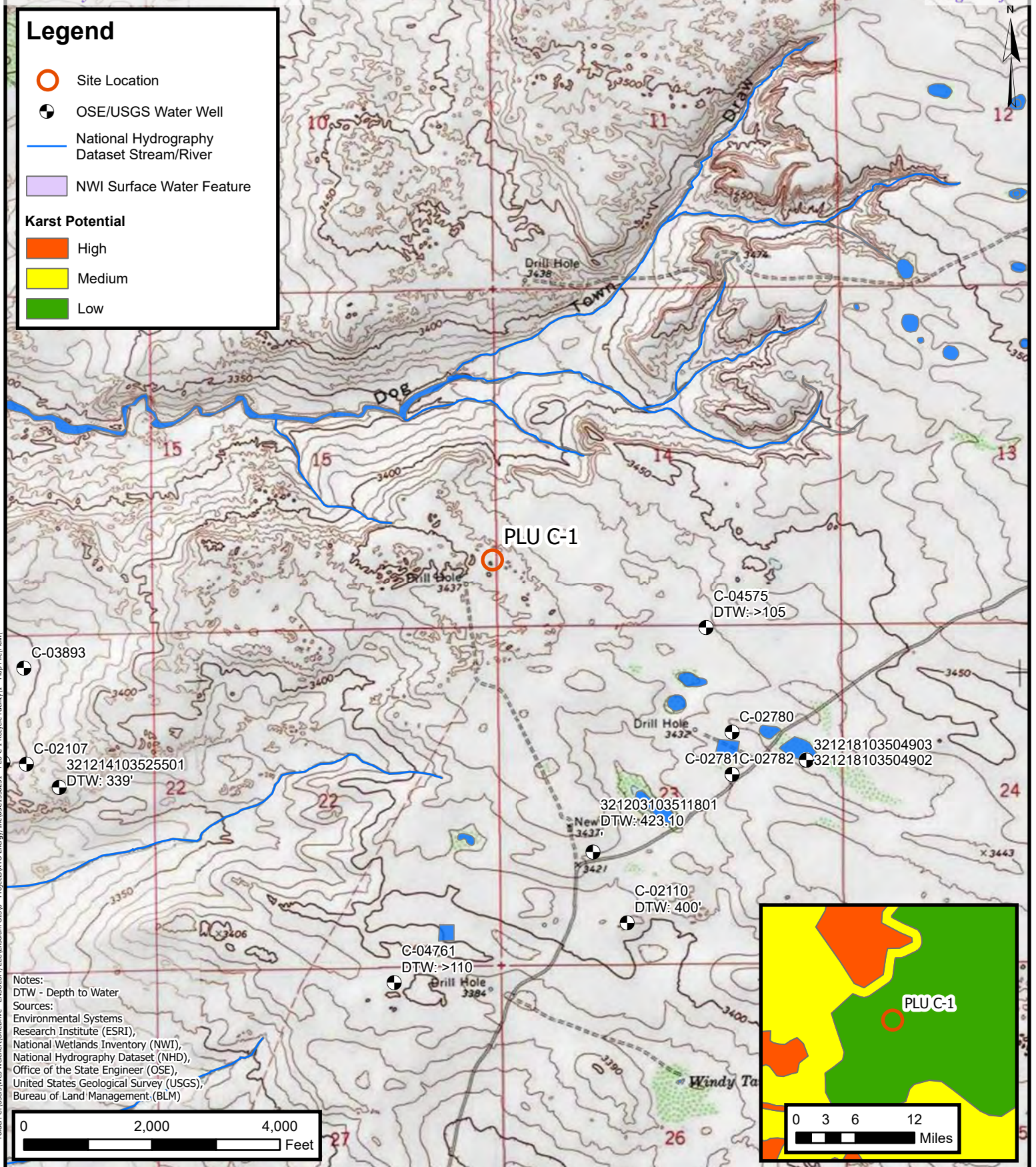
Appendices:

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Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	November 20, 2023 Remediation Work Plan
Appendix B	Lithologic / Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation

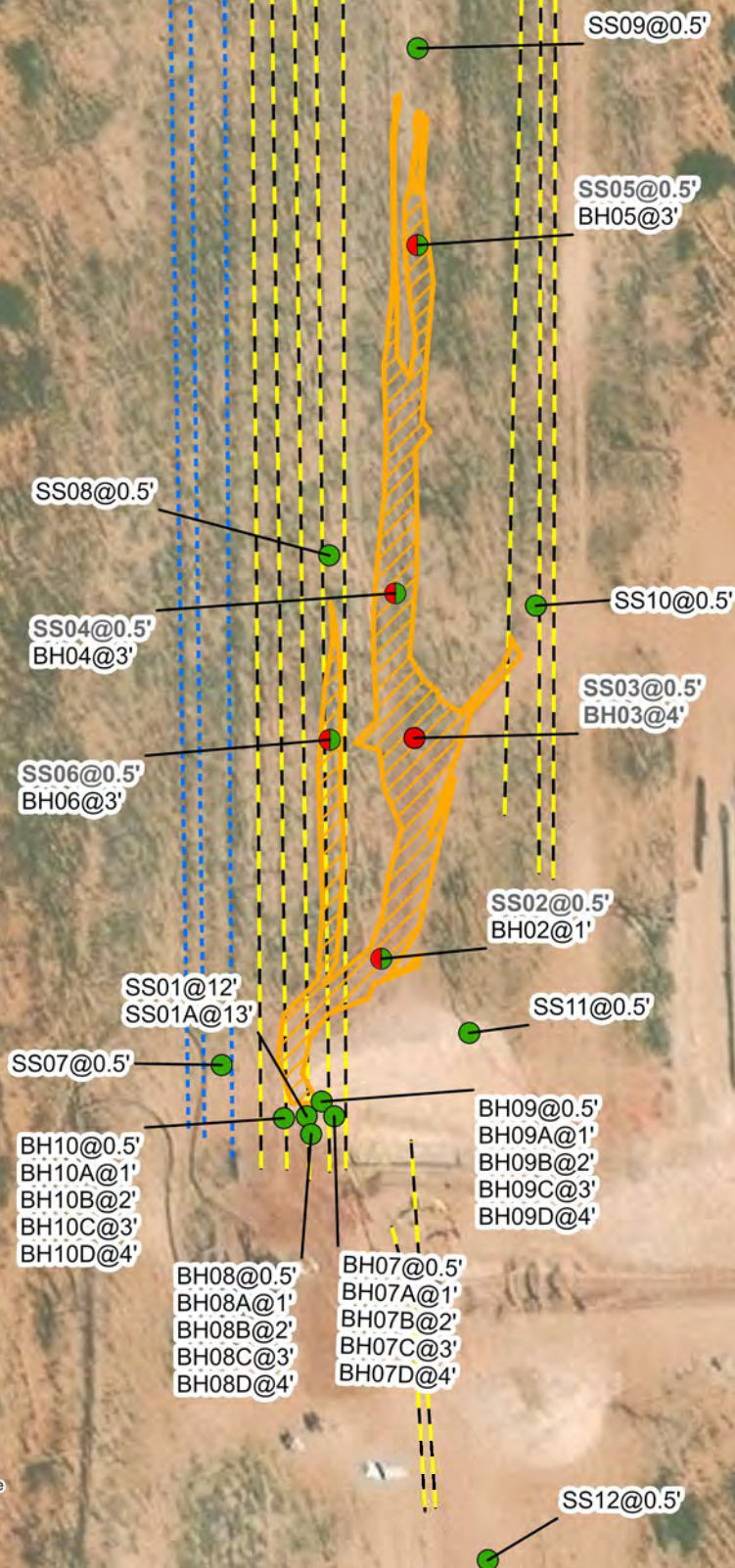


Figures



Legend

- Delineation Soil Samples Compliant with Closure Criteria
- Delineation Soil Samples with Initial Concentrations Exceeding Closure Criteria
- Delineation Soil Samples with Concentrations Exceeding Closure Criteria
- Oil and Gas Utility Line
- Water Utility Line
- ▨ Release Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 20 40 80 120 160
 Feet

Sources: Environmental Systems Research Institute (ESRI)



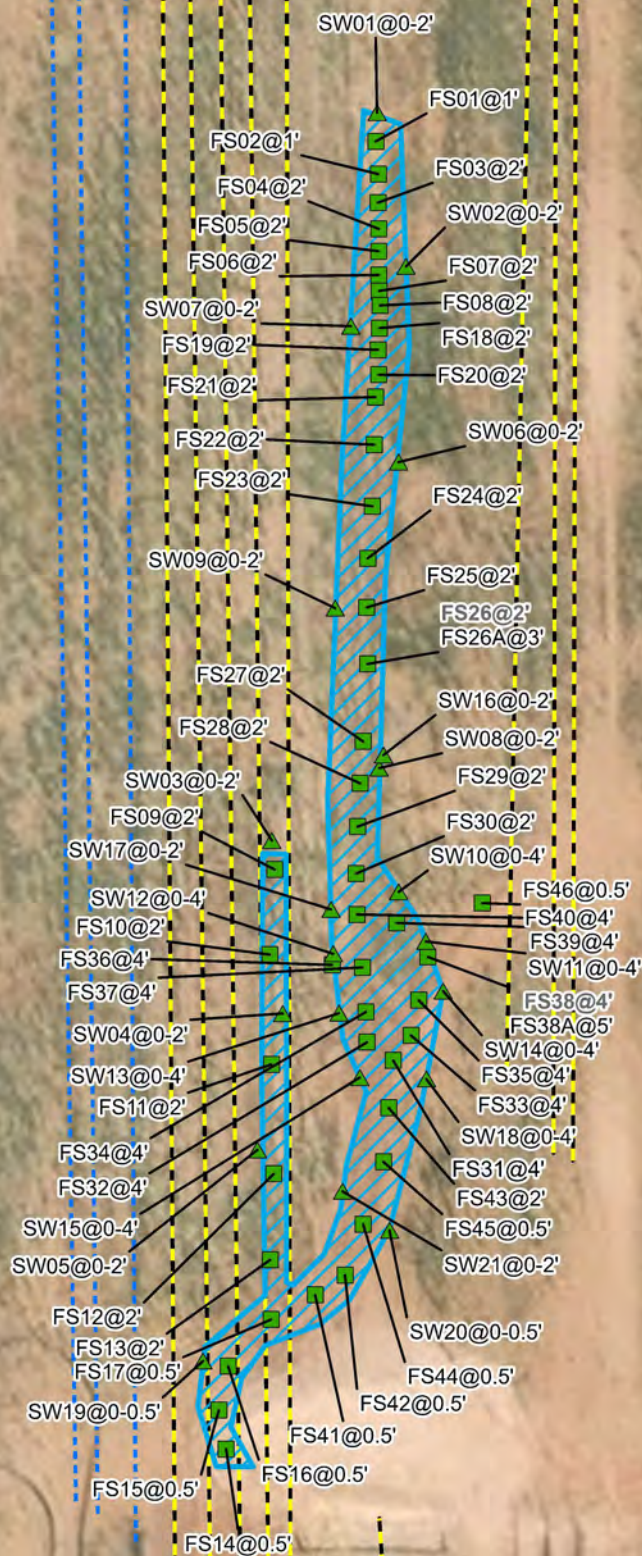
Delineation Soil Sample Locations

XTO Energy, Inc
 PLUC 1 Recycle Facility
 Incident Number: nAPP2316047464
 Unit P, Sec 15, T 24S, R 30E
 Eddy County, New Mexico, United States

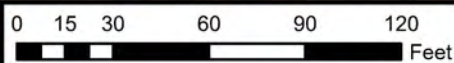
FIGURE
2

Legend

- ▲ Confirmation Sidewall Soil Samples Compliant with Closure Criteria
- Confirmation Floor Soil Samples Compliant with Closure Criteria
- Oil and Gas Utility Line
- Water Utility Line
- ▨ Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

Confirmation Soil Sample Locations

XTO Energy, Inc
 PLUC 1 Recycle Facility
 Incident Number: nAPP2316047464
 Unit P, Sec 15, T 24S, R 30E
 Eddy County, New Mexico, United States

FIGURE

3





Table



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLUC 1 RECYCLE FACILITY
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	NE	100	600
Delineation Soil Samples										
SS01	07/17/2023	12	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	71.7
SS01A	07/17/2023	13	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	68.0
SS02	07/17/2023	0.5	<0.00202	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	2,210
BH02	08/10/2023	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	307
SS03	07/17/2023	0.5	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	2,480
BH03	08/10/2023	4	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	1,340
SS04	07/17/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	802
BH04	08/10/2023	3	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	182
SS05	07/17/2023	0.5	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	3,080
BH05	08/10/2023	3	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	101
SS06	07/17/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,580
BH06	08/10/2023	3	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	327
BH07	02/28/2024	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	53.9
BH07A	02/28/2024	1	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	54.8
BH07B	02/28/2024	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	73.3
BH07C	02/28/2024	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	51.4
BH07D	02/28/2024	4	<0.00199	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	57.0
BH08	02/28/2024	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	50.9
BH08A	02/28/2024	1	<0.00198	<0.00397	<50.1	<50.1	<50.1	<50.1	<50.1	47.8
BH08B	02/28/2024	2	<0.00201	<0.00402	<50.4	<50.4	<50.4	<50.4	<50.4	60.7
BH08C	02/28/2024	3	<0.00200	<0.00401	<50.3	<50.3	<50.3	<50.3	<50.3	53.3
BH08D	02/28/2024	4	<0.00199	<0.00398	<50.3	<50.3	<50.3	<50.3	<50.3	55.2
BH09	02/28/2024	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	82.4
BH09A	02/28/2024	1	<0.00198	<0.00396	<50.1	<50.1	<50.1	<50.1	<50.1	82.2
BH09B	02/28/2024	2	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	63.9
BH09C	02/28/2024	3	<0.00200	<0.00401	<50.3	<50.3	<50.3	<50.3	<50.3	64.5
BH09D	02/28/2024	4	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	114
BH10	02/28/2024	0.5	<0.00198	<0.00396	<50.2	<50.2	<50.2	<50.2	<50.2	69.4
BH10A	02/28/2024	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	51.2
BH10B	02/28/2024	2	<0.00202	<0.00404	<49.7	<49.7	<49.7	<49.7	<49.7	51.0
BH10C	02/28/2024	3	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	227
BH10D	02/28/2024	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	194



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLUC 1 RECYCLE FACILITY
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	NE	100	600
SS07	07/17/2023	0.5	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	60.5
SS08	07/17/2023	0.5	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	40.1
SS09	07/17/2023	0.5	<0.00202	<0.00403	<50.3	<50.3	<50.3	<50.3	<50.3	38.9
SS10	07/17/2023	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	50.5
SS11	07/17/2023	0.5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	29.7
SS12	07/17/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	26.2
Confirmation Soil Samples										
FS01	02/26/2024	1	<0.00199	<0.00398	<50.4	<50.4	<50.4	<50.4	<50.4	62.9
FS02	02/26/2024	1	<0.00202	<0.00403	<50.5	<50.5	<50.5	<50.5	<50.5	82.0
FS03	02/26/2024	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	108
FS04	02/26/2024	2	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	63.3
FS05	02/26/2024	2	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	90.9
FS06	02/26/2024	2	<0.00199	<0.00398	<50.5	<50.5	<50.5	<50.5	<50.5	99.5
FS07	02/26/2024	2	<0.00198	<0.00396	<49.7	<49.7	<49.7	<49.7	<49.7	92.7
FS08	02/26/2024	2	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	76.7
FS09	02/26/2024	2	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	84.4
FS10	02/26/2024	2	<0.00200	<0.00401	<50.5	<50.5	<50.5	<50.5	<50.5	65.9
FS11	02/26/2024	2	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	75.7
FS12	02/26/2024	2	<0.00198	<0.00397	<50.4	<50.4	<50.4	<50.4	<50.4	154
FS13	03/20/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS14	02/26/2024	0.5	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	45.9
FS15	02/26/2024	0.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	96.9
FS16	02/26/2024	0.5	<0.00200	<0.00401	<50.1	<50.1	<50.1	<50.1	<50.1	259
FS17	02/26/2024	0.5	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	87.1
FS18	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS19	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	82.0
FS20	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS21	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS22	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS23	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS24	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS25	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
FS26	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
FS26A	04/16/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLUC 1 RECYCLE FACILITY
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	NE	100	600
FS27	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS28	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS29	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS30	03/19/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS31	03/19/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS32	03/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS33	03/19/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS34	03/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS35	03/19/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS36	03/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS37	03/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS38	03/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	688
FS38A	04/16/2024	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS39	03/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS40	03/20/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS41	03/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS42	03/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS43	03/20/2024	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS44	03/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
FS45	03/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS46	03/20/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW01	02/26/2024	0-2	<0.00198	<0.00397	<50.2	<50.2	<50.2	<50.2	<50.2	99.9
SW02	02/26/2024	0-2	<0.00200	<0.00400	<50.4	<50.4	<50.4	<50.4	<50.4	49.3
SW03	02/26/2024	0-2	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	98.4
SW04	02/26/2024	0-2	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	74.0
SW05	03/20/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW06	03/20/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW07	03/20/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW08	03/20/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW09	03/20/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW10	03/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW11	03/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW12	03/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW13	03/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLUC 1 RECYCLE FACILITY
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	NE	100	600
SW14	03/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW15	03/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW16	03/20/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW17	03/20/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW18	03/20/2024	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW19	03/20/2024	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SW20	03/20/2024	0-0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SW21	03/20/2024	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

November 20, 2023 Remediation Work Plan



November 20, 2023

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

**Re: Remediation Work Plan
PLU C-1
Incident Number NAPP2316047464
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan (Work Plan)* to document initial assessment activities completed to date and propose remedial actions to address impacted soil identified at the PLU C-1 (Site).

RELEASE SUMMARY AND BACKGROUND

The Site is located in Unit P, Section 15, Township 24 South, Range 30 East, in Eddy County, New Mexico (32.21356°, -103.86040°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On May 29, 2023, mechanical failure of a pump flange caused the release of approximately 57.58 barrels (bbls) of produced water along a pipeline right-of-way (ROW). Free-standing fluids were not able to be recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on May 30, 2023, and submitted a Release Notification Form C-141 (Form C-141) on June 9, 2023. The release was assigned Incident Number NAPP2316047464.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is a soil boring permitted by the New Mexico Office of the State Engineer (NMOSE). The soil boring (C-4575) is located approximately 0.65 miles southeast of the Site and was completed on January 4, 2022 as a depth to water boring assessment. The soil boring was drilled to a depth of 105 feet bgs and no groundwater was encountered. Based on the recently installed soil boring, depth to water at the Site is reasonably estimated to be greater than 100 feet bgs. The well record is included in Appendix A and all wells used to evaluate depth to groundwater are presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an

XTO Energy, Inc.
Remediation Work Plan
PLU C-1

occupied residence, school, hospital, institution, church, significant water course, or wetland. The Site is greater than 1,000 feet from 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).

Based on the closest depth to groundwater data exceeding a distance of 0.5 miles from the Site, as preferred by the NMOCD, the following Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On July 17, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. An excavation, related to the pipeline operations, existed near the point of release. Two soil samples were collected (SS01 and SS01A) at the base of the existing excavation at depths of 12 feet and 13 feet bgs, respectively, to assess the presence or absence of contaminants of concern (COCs) at concentrations that exceed the Closure Criteria. A total of five additional soil samples (SS02 through SS06) were collected within the release extent at depth of 0.5 feet bgs, to assess surficial soil within the release. Lateral soil samples (SS07 through SS12) were collected outside of the release extent to define the release extent. 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. A photographic log of Site conditions is included as Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following COCs: BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Ensolum returned to the Site on August 10, 2023, to assess soil vertically within the release extent. Boreholes BH02 through BH06 were advanced via hand auger in the vicinity of surface soil samples SS02 through SS06, respectfully. Soil was field screened for VOCs and chloride and samples were collected at depths ranging from 1-foot to 4 feet bgs. Soil samples were submitted for laboratory analysis as described above. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix C. Borehole locations are depicted on Figure 2.

Laboratory analytical results for assessment soil samples SS01 and SS01A, collected at the base of the existing excavation, completed prior to the release by XTO's pipeline operations group and located immediately adjacent to the point of release, indicated all COC concentrations were in compliance with the Closure Criteria, confirming the absence of impacted soil in this area. In order to protect the structural integrity of the production equipment installed, the excavation was backfilled following a review of the laboratory analytical results. Laboratory analytical results for surficial soil samples SS02 through SS06,

XTO Energy, Inc.
Remediation Work Plan
PLU C-1

collected within the release extent at 0.5 feet bgs, indicated the chloride concentrations in all five soil samples exceeded the Closure Criteria. Laboratory analytical results for vertical soil samples collected within the release extent indicated all COC concentrations were in compliance with the Closure Criteria, with the exception of BH03, collected at 4 feet bgs. Laboratory analytical results for lateral soil samples SS07 through SS12 indicated all COC concentrations were in compliance with the Closure Criteria. Soil analytical results from delineation activities are summarized on Table 1. The full laboratory analytical reports are included in Appendix D.

Based on laboratory analytical results of delineation soil samples collected within the release extent, soil containing chloride at concentrations greater than 600 mg/kg, is present within the release extent at depths ranging from the ground surface to a maximum depth of 4 feet bgs. As such, excavation appears warranted.

PROPOSED REMEDIATION WORK PLAN

Ensolum completed delineation activities at the Site to assess soil conditions following a May 2023 release of produced water within a pipeline ROW on federal land. Assessment activities indicates chloride concentrations in soil at the ground surface to 4 feet bgs do exceed the Closure Criteria, which requires excavation, backfilling with non-waste containing soil and reseeded to fully reclaim the Site. XTO is proposing the following remedial actions to address the May 2023 release:

- Excavate impacted soil to a depth of 4 feet bgs within the release extent footprint as depicted on Figure 2;
- Collect confirmation samples at the sampling frequency of one 5-point composite soil sample every 200 square feet along the excavation floor and sidewalls to confirm the proper removal of impacted soil;
- Backfill and recontour the fully excavated area to match pre-existing conditions;
- Re-seed the backfilled area with a BLM-approved seed mixture.

The release extent area covers approximate 8,200 square feet and estimating an average of 2 feet vertically to remove waste-containing soil, an estimated 600 cubic yards of soil will be excavated and properly transported to a New Mexico approved landfill facility for disposal. The remedial/reclamation approach described is believed to be protective of human health, the environment, and groundwater.

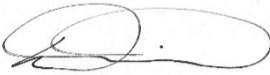
PROPOSED SCHEDULE

XTO will complete excavation and confirmation soil sampling and will submit a *Closure Request* within 90 days following approval of the *Work Plan* from NMOCD.

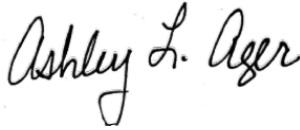
XTO Energy, Inc.
Remediation Work Plan
PLU C-1

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

Sincerely,
Ensolum, LLC



Daniel R. Moir, PG
Senior Managing Geologist



Ashley L. Ager, MS, PG
Principal

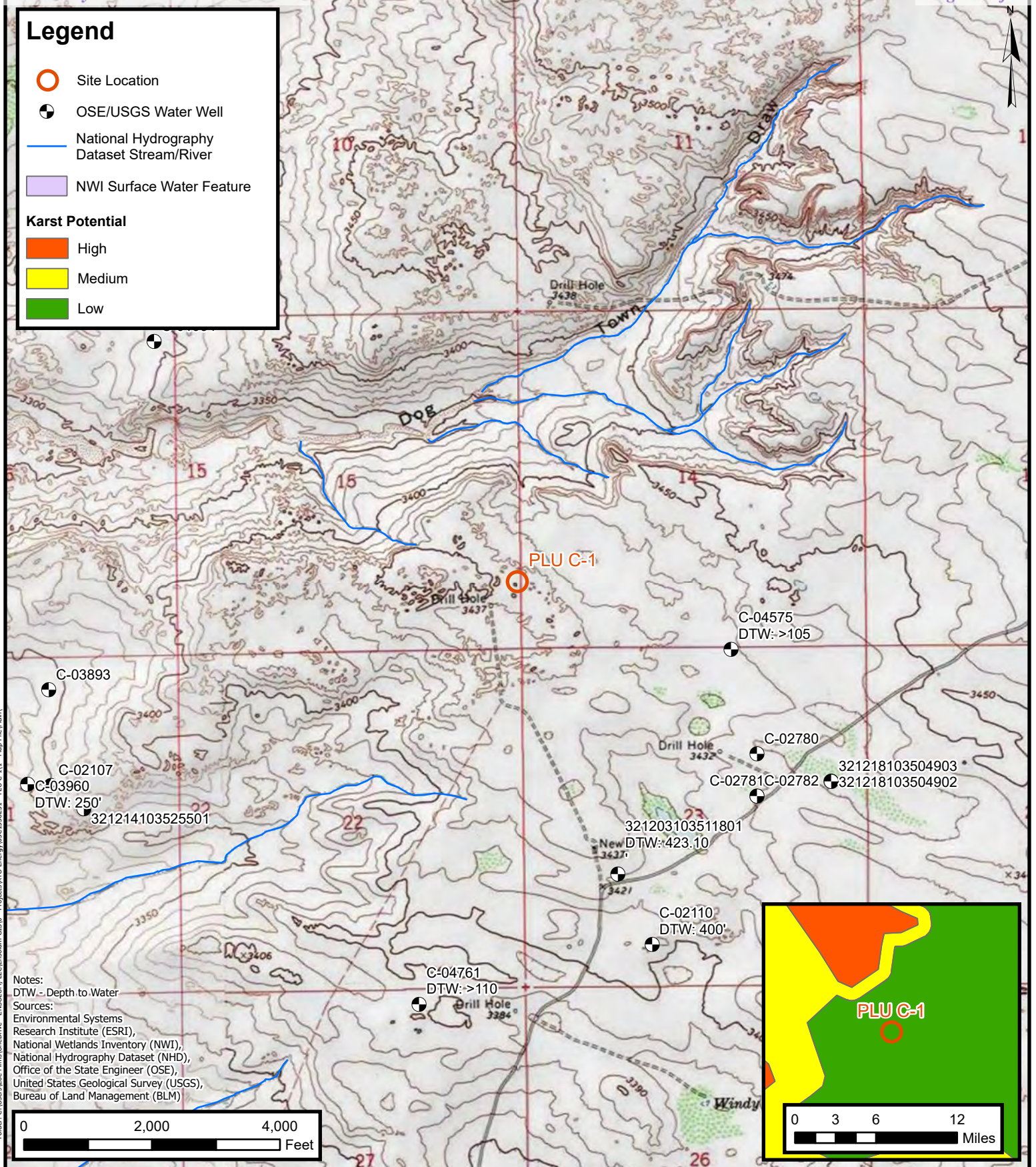
cc: Garrett Green, XTO
Tommee Lambert, XTO
BLM

Appendices:

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



Figures



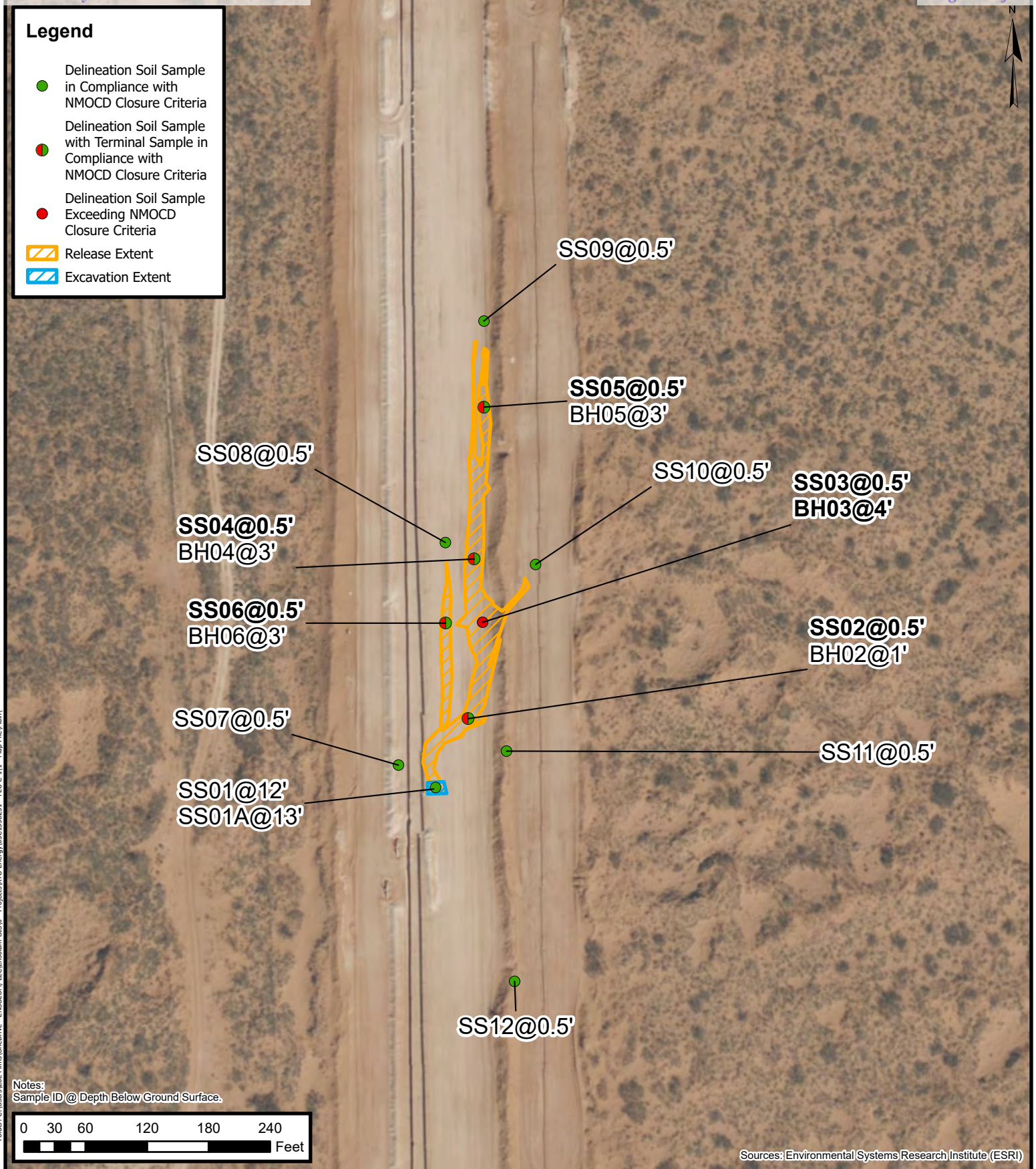
Site Receptor Map

XTO Energy, Inc.
PLU C-1

Incident Number: NAPP2316047464
Unit P, Sec 15, T24S, R30E
Eddy County, New Mexico

FIGURE

1





Table



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU C-1
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	NE	100	600
Delineation Soil Samples										
SS01	07/17/2023	12	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	71.7
SS01A	07/17/2023	13	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	68.0
SS02	07/17/2023	0.5	<0.00202	<0.00403	<50.4	<50.4	<50.4	<50.4	<50.4	2,210
BH02	08/10/2023	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	307
SS03	07/17/2023	0.5	<0.00201	<0.00402	<50.2	<50.2	<50.2	<50.2	<50.2	2,480
BH03	08/10/2023	4	<0.00200	<0.00401	<49.7	<49.7	<49.7	<49.7	<49.7	1,340
SS04	07/17/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	802
BH04	08/10/2023	3	<0.00201	<0.00402	<50.3	<50.3	<50.3	<50.3	<50.3	182
SS05	07/17/2023	0.5	<0.00202	<0.00404	<49.6	<49.6	<49.6	<49.6	<49.6	3,080
BH05	08/10/2023	3	<0.00199	<0.00398	<50.1	<50.1	<50.1	<50.1	<50.1	101
SS06	07/17/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,580
BH06	08/10/2023	3	<0.00198	<0.00396	<50.4	<50.4	<50.4	<50.4	<50.4	327
SS07	07/17/2023	0.5	<0.00200	<0.00399	<50.5	<50.5	<50.5	<50.5	<50.5	60.5
SS08	07/17/2023	0.5	<0.00200	<0.00399	<50.4	<50.4	<50.4	<50.4	<50.4	40.1
SS09	07/17/2023	0.5	<0.00202	<0.00403	<50.3	<50.3	<50.3	<50.3	<50.3	38.9
SS10	07/17/2023	0.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	50.5
SS11	07/17/2023	0.5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	29.7
SS12	07/17/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	26.2

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

Well Log Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE OIT JAN 24 2022 PM 3:00

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4575			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 12	SECONDS 38.03 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NE Sec. 23 T24S R30E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 1-4-2022	DRILLING ENDED 1-4-2022	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER – SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±8.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

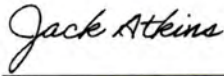
FILE NO. C-4575	POD NO. 1	TRN NO. 709414
LOCATION 2-1-1 24S-30E-23	WELL TAG ID NO. —	PAGE 1 OF 2

MON

USE ON JAN 24 2022 09:00

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	1	1	Caliche, White, Dry	Y ✓ N	
	1	20	19	Sand, very fine grained, well graded, with caliche, Reddish Brown-Light Brown	Y N	
	20	30	20	Caliche, consolidated with silt and some gravel, Off-White, Dry	Y ✓ N	
	30	50	20	Sand, very fine grained, well graded, with gravel, Light Brown	Y ✓ N	
	50	75	25	Sand, very fine grained, well graded, with gravel, Reddish Brown, slight moist	Y ✓ N	
	75	105	30	Sand, very fine grained, poorly graded, Reddish Brown, slight moist	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt, Carmelo Trevino	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	Jackie D. Atkins DATE: 1/21/2022

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4573	POD NO. 1	TRN NO. 709414
LOCATION 2-1-1 245-30E-23	WELL TAG ID NO.	PAGE 2 OF 2

MON

OSE_Well Record and Log_-forsign

Final Audit Report

2022-01-22

Created:	2022-01-21
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAHFW29aZiQH1D931B0LxyAz3o1wYi88ri

"OSE_Well Record and Log_-forsign" History



Document created by Lucas Middleton (lucas@atkinseng.com)

2022-01-21 - 10:47:34 PM GMT- IP address: 69.21.248.123

OSE DIT JAN 24 2022 PM3:00



Document emailed to Jack Atkins (jack@atkinseng.com) for signature

2022-01-21 - 10:48:19 PM GMT



Email viewed by Jack Atkins (jack@atkinseng.com)

2022-01-21 - 10:49:13 PM GMT- IP address: 64.90.153.232



Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2022-01-22 - 0:16:23 AM GMT - Time Source: server- IP address: 64.90.153.232



Agreement completed.

2022-01-22 - 0:16:23 AM GMT



Adobe Sign



APPENDIX B

Photographic Log



Photographic Log

XTO Energy, Inc

PLU C-1

Incident Number NAPP2316047464

Date & Time: Mon, Jul 17, 2023 at 08:42:53 MDT
 Position: +032.214256° / -103.860666° (±15.6ft)
 Altitude: 3443ft (±11.0ft)
 Datum: WGS-84
 Azimuth/Bearing: 005° N05E 0089mils True (±12°)
 Elevation Angle: -02.4°
 Horizon Angle: +00.1°
 Zoom: 0.5X
 release extent
 Mariaha O Dell



Photograph 1

Date: 7/17/2023

Description: Release extent

View: North

Date & Time: Mon, Jul 17, 2023 at 12:20:34 MDT
 Position: +032.213163° / -103.860757° (±15.6ft)
 Altitude: 3456ft (±11.0ft)
 Datum: WGS-84
 Azimuth/Bearing: 045° N45E 0800mils True (±13°)
 Elevation Angle: -06.9°
 Horizon Angle: +01.2°
 Zoom: 0.5X
 excavation looking north
 Mariaha O Dell



Photograph 2

Date: 7/17/2023

Description: Initial excavation of saturated soil

View: Northeast

Date & Time: Mon, Jul 17, 2023 at 12:21:14 MDT
 Position: +032.213073° / -103.860539° (±15.6ft)
 Altitude: 3460ft (±11.0ft)
 Datum: WGS-84
 Azimuth/Bearing: 185° S05W 3289mils True (±13°)
 Elevation Angle: -04.4°
 Horizon Angle: +00.6°
 Zoom: 0.5X
 access road into excavation and release extent
 Mariaha O Dell



Photograph 3

Date: 7/17/2023

Description: Sandy access road to release extent

View: South

Date & Time: Mon, Jul 17, 2023 at 12:51:07 MDT
 Position: +032.213505° / -103.860769° (±15.1ft)
 Altitude: 3453ft (±11.6ft)
 Datum: WGS-84
 Azimuth/Bearing: 105° S75E 1867mils True (±13°)
 Elevation Angle: -20.8°
 Horizon Angle: -01.9°
 Zoom: 0.5X
 excavation and release point
 Mariaha O Dell



Photograph 4

Date: 7/17/2023

Description: Additional view of initial excavation

View: East-Southeast



Photographic Log

XTO Energy, Inc

PLU C-1

Incident Number NAPP2316047464

Date & Time: Thu, Aug 10, 2023 at 12:41:52 MDT
Position: +032.213834° / -103.860730° (±32.8ft)
Altitude: 3379ft (±62.3ft)
Datum: WGS-84
Azimuth/Bearing: 193° S13W 3431mils True (±12°)
Elevation Angle: -08.1°
Horizon Angle: +00.6°
Zoom: 0.5X
BH02 at 1' south view
Mariaha O Dell



Date & Time: Thu, Aug 10, 2023 at 12:47:20 MDT
Position: +032.214005° / -103.860670° (±15.1ft)
Altitude: 3447ft (±11.6ft)
Datum: WGS-84
Azimuth/Bearing: 024° N24E 0427mils True (±12°)
Elevation Angle: -10.5°
Horizon Angle: -00.7°
Zoom: 0.5X
BH03 at 3'
Mariaha O Dell



Photograph 5

Date: 8/10/2023

Description: Vertical delineation activities (BH02)

View: South

Photograph 6

Date: 8/10/2023


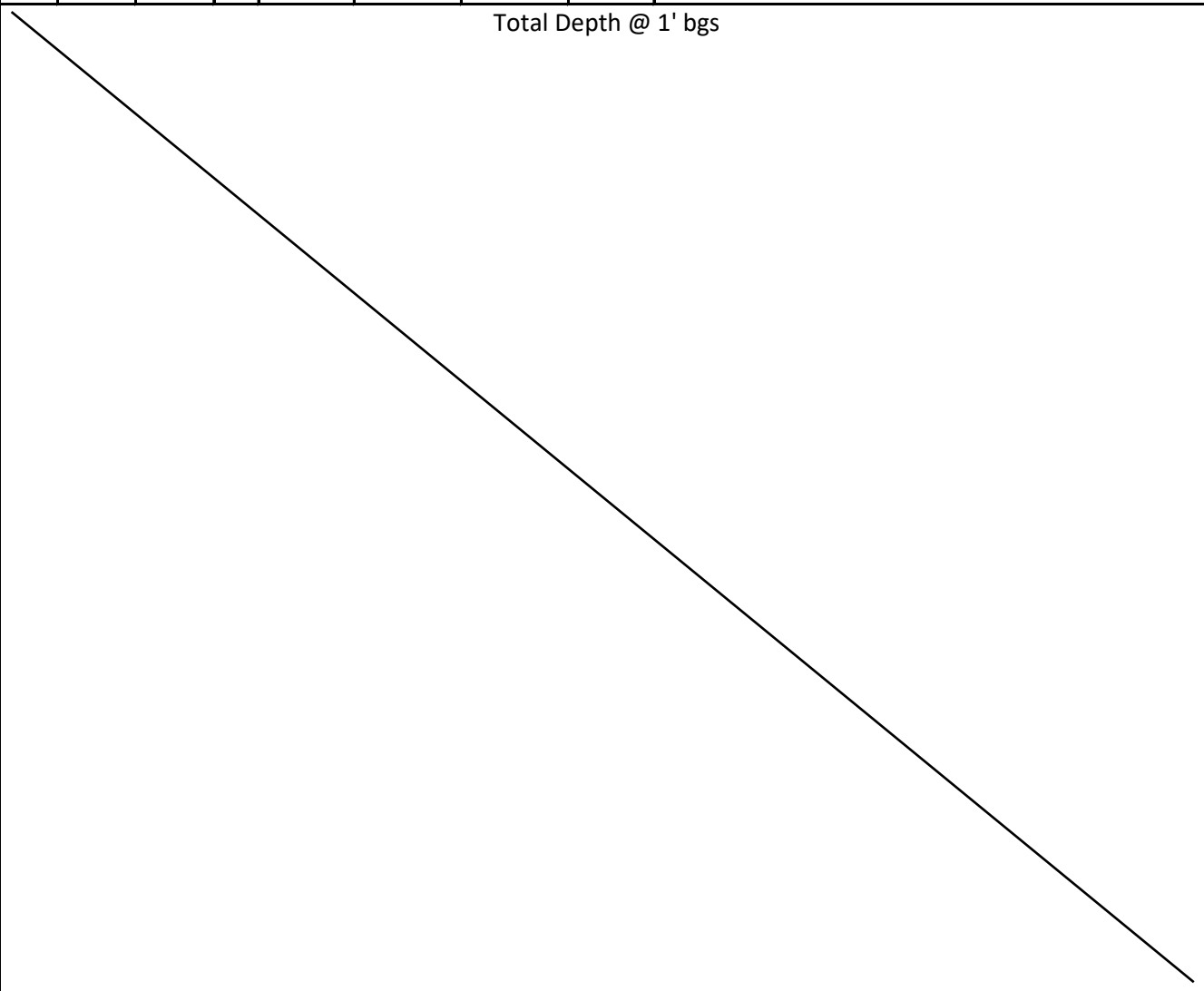
Description: Vertical delineation activities (BH03)


View: Northeast





APPENDIX C


Lithologic / Soil Sampling Logs

		Sample Name: SS02/BH02		Date: 8/10/2023				
		Site Name: PLU C-1 Recycle Facility						
		Incident Number: nAPP2316047464						
		Job Number: 03C1558251						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: M. O'Dell		Method: Hand Auger		
Coordinates: 32.213714, -103.860711				Hole Diameter: 6"		Total Depth: 1.0'		
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. All chloride measurements done with a + 40% correction factor.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	3020	0.0	N	SS02	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.
D	246.4	0.0	N	BH02	1	1	SP	Sand. Reddish brown, very fine to fine grained, poorly graded, dry.
Total Depth @ 1' bgs								
								

								Sample Name: SS03/BH03		Date: 8/10/2023	
								Site Name: PLU C-1 Recycle Facility			
								Incident Number: nAPP2316047464			
								Job Number: 03C1558251			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell		Method: Hand Auger	
Coordinates: 32.213982, -103.860657								Hole Diameter: 6"		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. All chloride measurements done with a + 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1982	0.0	N	SS03	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.			
D	1,389	0.0	N			1	SP	Sand. Reddish brown, very fine to fine grained, poorly graded, dry.			
D	2,145	0.0	N			2					
D	2,464	0.0	N			3					
D	1,193	0.0	N	BH03	4	4					
Total Depth @ 4' bgs. Hand auger refusal at 4' bgs.											

 ENSOLUM								Sample Name: SS04/BH04		Date: 8/10/2023	
								Site Name: PLU C-1 Recycle Facility			
								Incident Number: nAPP2316047464			
								Job Number: 03C1558251			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell		Method: Hand Auger	
Coordinates: 32.214155, -103.860682								Hole Diameter: 6"		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. All chloride measurements done with a + 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	952	0.0	N	SS04	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.			
D	1,613	0.0	N	BH04		1	SP	Sand. Reddish brown, very fine to fine grained, poorly graded, dry.			
D	1,019	0.0	N			2					
D	179.2	0.0	N			3					
D	<179	0.0	N			4					
Total Depth @ 4' bgs. Hand auger refusal at 4' bgs.											

								Sample Name: SS05/BH05		Date: 8/10/2023	
								Site Name: PLU C-1 Recycle Facility			
								Incident Number: nAPP2316047464			
								Job Number: 03C1558251			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell		Method: Hand Auger	
Coordinates: 32.214559, -103.860645								Hole Diameter: 6"		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. All chloride measurements done with a + 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	4452	0.0	N	SS05	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.			
D	1,103	0.0	N			1	SP	Sand. Reddish brown, very fine to fine grained, poorly graded, dry.			
D	448	0.0	N			2					
D	<179	0.0	N	BH05	3	3					
Total Depth @ 3' bgs											

								Sample Name: SS06/BH06		Date: 8/10/2023	
								Site Name: PLU C-1 Recycle Facility			
								Incident Number: nAPP2316047464			
								Job Number: 03C1558251			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell		Method: Hand Auger	
Coordinates: 32.213980, -103.860771								Hole Diameter: 6"		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. All chloride measurements done with a + 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	1725	0.0	N	SS06	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, well graded, dry.			
D	1,501	0.0	N	BH06		1	SP	Sand. Reddish brown, very fine to fine grained, poorly graded, dry.			
D	1,999	0.0	N			2					
D	498	0.0	N			3					
D	790	0.0	N			4					
Total Depth @ 4' bgs. Hand auger refusal @ 4' bgs.											



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 8/2/2023 1:48:17 PM Revision 1

JOB DESCRIPTION

PLU C-1 RECYCLE FACILITY
SDG NUMBER 03C1558251

JOB NUMBER

890-4956-1

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



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

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Revision 1

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Laboratory Job ID: 890-4956-1
SDG: 03C1558251

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

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, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Job ID: 890-4956-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4956-1

REVISION

The report being provided is a revision of the original report sent on 7/28/2023. The report (revision 1) is being revised due to Per client email, it is beleived that SS02 and SS07 were inadvertently switched.

Receipt

The samples were received on 7/17/2023 4:11 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4956-1), SS01A (890-4956-2), SS07 (890-4956-3), SS03 (890-4956-4), SS04 (890-4956-5), SS05 (890-4956-6), SS06 (890-4956-7), SS02 (890-4956-8), SS08 (890-4956-9), SS09 (890-4956-10), SS10 (890-4956-11), SS11 (890-4956-12) and SS12 (890-4956-13).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4956-A-12-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58267 recovered above the upper control limit for m-Xylene & p-Xylene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58267/2).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-58153 and analytical batch 880-58267 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.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-58267 recovered above the upper control limit for Benzene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-58267/51).

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS01A (890-4956-2), (890-4929-A-1-C), (890-4929-A-1-D MS) and (890-4929-A-1-E MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS01

Lab Sample ID: 890-4956-1

Date Collected: 07/17/23 10:00

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 12

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 12:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 12:40	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 12:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/20/23 14:04	07/22/23 12:40	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 12:40	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/20/23 14:04	07/22/23 12:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	07/20/23 14:04	07/22/23 12:40	1
1,4-Difluorobenzene (Surr)	77		70 - 130	07/20/23 14:04	07/22/23 12:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			07/28/23 11:50	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		07/20/23 15:43	07/27/23 14:45	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		07/20/23 15:43	07/27/23 14:45	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		07/20/23 15:43	07/27/23 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	07/20/23 15:43	07/27/23 14:45	1
o-Terphenyl	114		70 - 130	07/20/23 15:43	07/27/23 14:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	71.7		4.97	mg/Kg			07/20/23 10:01	1

Client Sample ID: SS01A

Lab Sample ID: 890-4956-2

Date Collected: 07/17/23 10:05

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 13

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		07/20/23 14:04	07/22/23 16:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/20/23 14:04	07/22/23 16:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/20/23 14:04	07/22/23 16:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/20/23 14:04	07/22/23 16:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/20/23 14:04	07/22/23 16:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/20/23 14:04	07/22/23 16:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	07/20/23 14:04	07/22/23 16:27	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS01A

Lab Sample ID: 890-4956-2

Date Collected: 07/17/23 10:05

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 13

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	07/20/23 14:04	07/22/23 16:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/28/23 11:50	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	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 15:07	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 15:07	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 15:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130			07/20/23 15:43	07/27/23 15:07	1
o-Terphenyl	117		70 - 130			07/20/23 15:43	07/27/23 15:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	68.0		5.00	mg/Kg			07/20/23 10:16	1

Client Sample ID: SS07

Lab Sample ID: 890-4956-3

Date Collected: 07/17/23 09:20

Matrix: Solid

Date Received: 07/17/23 16:11

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		07/20/23 14:04	07/22/23 16:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 16:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 16:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/20/23 14:04	07/22/23 16:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 16:48	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/20/23 14:04	07/22/23 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	07/20/23 14:04	07/22/23 16:48	1
1,4-Difluorobenzene (Surr)	86		70 - 130	07/20/23 14:04	07/22/23 16:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5	mg/Kg			07/28/23 11:50	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS07

Lab Sample ID: 890-4956-3

Date Collected: 07/17/23 09:20

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		07/20/23 15:43	07/27/23 15:29	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		07/20/23 15:43	07/27/23 15:29	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		07/20/23 15:43	07/27/23 15:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			07/20/23 15:43	07/27/23 15:29	1
o-Terphenyl	111		70 - 130			07/20/23 15:43	07/27/23 15:29	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.5		4.99	mg/Kg			07/20/23 10:22	1

Client Sample ID: SS03

Lab Sample ID: 890-4956-4

Date Collected: 07/17/23 09:25

Matrix: Solid

Date Received: 07/17/23 16:11

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		07/20/23 14:04	07/22/23 17:08	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/20/23 14:04	07/22/23 17:08	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/20/23 14:04	07/22/23 17:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/20/23 14:04	07/22/23 17:08	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/20/23 14:04	07/22/23 17:08	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/20/23 14:04	07/22/23 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			07/20/23 14:04	07/22/23 17:08	1
1,4-Difluorobenzene (Surr)	74		70 - 130			07/20/23 14:04	07/22/23 17:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		07/20/23 15:43	07/27/23 16:13	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		07/20/23 15:43	07/27/23 16:13	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/20/23 15:43	07/27/23 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			07/20/23 15:43	07/27/23 16:13	1
o-Terphenyl	103		70 - 130			07/20/23 15:43	07/27/23 16:13	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS03

Lab Sample ID: 890-4956-4

Date Collected: 07/17/23 09:25

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2480		25.1	mg/Kg			07/20/23 10:57	5

Client Sample ID: SS04

Lab Sample ID: 890-4956-5

Date Collected: 07/17/23 09:30

Matrix: Solid

Date Received: 07/17/23 16:11

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		07/20/23 14:04	07/22/23 17:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 17:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 17:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		07/20/23 14:04	07/22/23 17:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 17:29	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		07/20/23 14:04	07/22/23 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			07/20/23 14:04	07/22/23 17:29	1
1,4-Difluorobenzene (Surr)	75		70 - 130			07/20/23 14:04	07/22/23 17:29	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		07/20/23 15:43	07/27/23 16:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/20/23 15:43	07/27/23 16:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/20/23 15:43	07/27/23 16:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/20/23 15:43	07/27/23 16:34	1
o-Terphenyl	101		70 - 130			07/20/23 15:43	07/27/23 16:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	802		5.03	mg/Kg			07/20/23 11:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS05

Lab Sample ID: 890-4956-6

Date Collected: 07/17/23 09:35

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 17:49	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 17:49	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 17:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		07/20/23 14:04	07/22/23 17:49	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 17:49	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		07/20/23 14:04	07/22/23 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	07/20/23 14:04	07/22/23 17:49	1
1,4-Difluorobenzene (Surr)	70		70 - 130	07/20/23 14:04	07/22/23 17:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/28/23 11:50	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	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 16:56	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 16:56	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	07/20/23 15:43	07/27/23 16:56	1
o-Terphenyl	102		70 - 130	07/20/23 15:43	07/27/23 16:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3080		25.0	mg/Kg			07/20/23 11:07	5

Client Sample ID: SS06

Lab Sample ID: 890-4956-7

Date Collected: 07/17/23 09:40

Matrix: Solid

Date Received: 07/17/23 16:11

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		07/20/23 14:04	07/22/23 18:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		07/20/23 14:04	07/22/23 18:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/20/23 14:04	07/22/23 18:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/20/23 14:04	07/22/23 18:10	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/20/23 14:04	07/22/23 18:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/20/23 14:04	07/22/23 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	07/20/23 14:04	07/22/23 18:10	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS06

Lab Sample ID: 890-4956-7

Date Collected: 07/17/23 09:40

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	72		70 - 130	07/20/23 14:04	07/22/23 18:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 17:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 17:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			07/20/23 15:43	07/27/23 17:18	1
o-Terphenyl	113		70 - 130			07/20/23 15:43	07/27/23 17:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1580		25.1	mg/Kg			07/20/23 11:12	5

Client Sample ID: SS02

Lab Sample ID: 890-4956-8

Date Collected: 07/17/23 10:40

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 18:30	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 18:30	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 18:30	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/20/23 14:04	07/22/23 18:30	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 18:30	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/20/23 14:04	07/22/23 18:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	07/20/23 14:04	07/22/23 18:30	1
1,4-Difluorobenzene (Surr)	80		70 - 130	07/20/23 14:04	07/22/23 18:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			07/28/23 11:50	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS02

Lab Sample ID: 890-4956-8

Date Collected: 07/17/23 10:40

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/20/23 15:43	07/27/23 17:40	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/20/23 15:43	07/27/23 17:40	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/20/23 15:43	07/27/23 17:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130			07/20/23 15:43	07/27/23 17:40	1
o-Terphenyl	112		70 - 130			07/20/23 15:43	07/27/23 17:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2210		25.0	mg/Kg			07/20/23 11:17	5

Client Sample ID: SS08

Lab Sample ID: 890-4956-9

Date Collected: 07/17/23 10:45

Matrix: Solid

Date Received: 07/17/23 16:11

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		07/20/23 14:04	07/22/23 18:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 18:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 18:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		07/20/23 14:04	07/22/23 18:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 18:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		07/20/23 14:04	07/22/23 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			07/20/23 14:04	07/22/23 18:51	1
1,4-Difluorobenzene (Surr)	79		70 - 130			07/20/23 14:04	07/22/23 18:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		07/20/23 15:43	07/27/23 18:02	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		07/20/23 15:43	07/27/23 18:02	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		07/20/23 15:43	07/27/23 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			07/20/23 15:43	07/27/23 18:02	1
o-Terphenyl	113		70 - 130			07/20/23 15:43	07/27/23 18:02	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS08

Lab Sample ID: 890-4956-9

Date Collected: 07/17/23 10:45

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.1		4.99	mg/Kg			07/20/23 11:22	1

Client Sample ID: SS09

Lab Sample ID: 890-4956-10

Date Collected: 07/17/23 10:50

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 19:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 19:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 19:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		07/20/23 14:04	07/22/23 19:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		07/20/23 14:04	07/22/23 19:11	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		07/20/23 14:04	07/22/23 19:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77		70 - 130			07/20/23 14:04	07/22/23 19:11	1
1,4-Difluorobenzene (Surr)	77		70 - 130			07/20/23 14:04	07/22/23 19:11	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			07/28/23 11:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		07/20/23 15:43	07/27/23 18:24	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		07/20/23 15:43	07/27/23 18:24	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		07/20/23 15:43	07/27/23 18:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			07/20/23 15:43	07/27/23 18:24	1
o-Terphenyl	107		70 - 130			07/20/23 15:43	07/27/23 18:24	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.9		4.98	mg/Kg			07/20/23 11:28	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS10

Lab Sample ID: 890-4956-11

Date Collected: 07/17/23 10:55

Matrix: Solid

Date Received: 07/17/23 16:11

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		07/20/23 14:04	07/22/23 19:32	1
Toluene	0.00277		0.00199	mg/Kg		07/20/23 14:04	07/22/23 19:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		07/20/23 14:04	07/22/23 19:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		07/20/23 14:04	07/22/23 19:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		07/20/23 14:04	07/22/23 19:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		07/20/23 14:04	07/22/23 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130	07/20/23 14:04	07/22/23 19:32	1
1,4-Difluorobenzene (Surr)	93		70 - 130	07/20/23 14:04	07/22/23 19:32	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/28/23 11:50	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	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 18:46	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 18:46	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 18:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	07/20/23 15:43	07/27/23 18:46	1
o-Terphenyl	99		70 - 130	07/20/23 15:43	07/27/23 18:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.5		5.01	mg/Kg			07/19/23 18:43	1

Client Sample ID: SS11

Lab Sample ID: 890-4956-12

Date Collected: 07/17/23 11:00

Matrix: Solid

Date Received: 07/17/23 16:11

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 F1 F2	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:37	1
Toluene	<0.00200	U F1 F2	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:37	1
Ethylbenzene	<0.00200	U F1 F2	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:37	1
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.00399	mg/Kg		07/20/23 14:20	07/22/23 22:37	1
o-Xylene	<0.00200	U F1 F2	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:37	1
Xylenes, Total	<0.00399	U F1 F2	0.00399	mg/Kg		07/20/23 14:20	07/22/23 22:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	07/20/23 14:20	07/22/23 22:37	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS11

Lab Sample ID: 890-4956-12

Date Collected: 07/17/23 11:00

Matrix: Solid

Date Received: 07/17/23 16:11

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94		70 - 130	07/20/23 14:20	07/22/23 22:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			07/28/23 11:50	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	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 19:07	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 19:07	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		07/20/23 15:43	07/27/23 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			07/20/23 15:43	07/27/23 19:07	1
o-Terphenyl	95		70 - 130			07/20/23 15:43	07/27/23 19:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.7		4.99	mg/Kg			07/19/23 18:48	1

Client Sample ID: SS12

Lab Sample ID: 890-4956-13

Date Collected: 07/17/23 13:00

Matrix: Solid

Date Received: 07/17/23 16:11

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		07/20/23 14:20	07/22/23 22:57	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/20/23 14:20	07/22/23 22:57	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		07/20/23 14:20	07/22/23 22:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		07/20/23 14:20	07/22/23 22:57	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		07/20/23 14:20	07/22/23 22:57	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		07/20/23 14:20	07/22/23 22:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		70 - 130	07/20/23 14:20	07/22/23 22:57	1
1,4-Difluorobenzene (Surr)	81		70 - 130	07/20/23 14:20	07/22/23 22:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			07/24/23 09:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			07/28/23 11:50	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS12
Date Collected: 07/17/23 13:00
Date Received: 07/17/23 16:11
Sample Depth: 0.5

Lab Sample ID: 890-4956-13
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 19:29	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 19:29	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 19:29	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	108		70 - 130			07/20/23 15:43	07/27/23 19:29	1	
o-Terphenyl	91		70 - 130			07/20/23 15:43	07/27/23 19:29	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	26.2		4.99	mg/Kg			07/19/23 18:53	1	

Surrogate Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-4956-1	SS01	92	77
890-4956-2	SS01A	78	92
890-4956-3	SS07	75	86
890-4956-4	SS03	89	74
890-4956-5	SS04	94	75
890-4956-6	SS05	89	70
890-4956-7	SS06	90	72
890-4956-8	SS02	95	80
890-4956-9	SS08	91	79
890-4956-10	SS09	77	77
890-4956-11	SS10	81	93
890-4956-12	SS11	80	94
890-4956-12 MS	SS11	105	109
890-4956-12 MSD	SS11	67 S1-	102
890-4956-13	SS12	82	81
LCS 880-58152/1-A	Lab Control Sample	113	104
LCS 880-58153/1-A	Lab Control Sample	107	103
LCSD 880-58152/2-A	Lab Control Sample Dup	111	105
LCSD 880-58153/2-A	Lab Control Sample Dup	114	107
MB 880-58152/5-A	Method Blank	72	87
MB 880-58153/5-A	Method Blank	73	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-4929-A-1-D MS	Matrix Spike	147 S1+	119
890-4929-A-1-E MSD	Matrix Spike Duplicate	144 S1+	112
890-4956-1	SS01	130	114
890-4956-2	SS01A	131 S1+	117
890-4956-3	SS07	126	111
890-4956-4	SS03	122	103
890-4956-5	SS04	118	101
890-4956-6	SS05	120	102
890-4956-7	SS06	130	113
890-4956-8	SS02	130	112
890-4956-9	SS08	129	113
890-4956-10	SS09	125	107
890-4956-11	SS10	105	99
890-4956-12	SS11	111	95
890-4956-13	SS12	108	91
LCS 880-58169/2-A	Lab Control Sample	112	105
LCSD 880-58169/3-A	Lab Control Sample Dup	102	92
MB 880-58169/1-A	Method Blank	162 S1+	150 S1+

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Surrogate Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Surrogate Legend
1CO = 1-Chlorooctane
OTPH = o-Terphenyl

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

QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-58152/5-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58152

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:04	07/22/23 11:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/20/23 14:04	07/22/23 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	07/20/23 14:04	07/22/23 11:37	1
1,4-Difluorobenzene (Surr)	87		70 - 130	07/20/23 14:04	07/22/23 11:37	1

Lab Sample ID: LCS 880-58152/1-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58152

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1155		mg/Kg		116	70 - 130
Toluene	0.100	0.1017		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1131		mg/Kg		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2400		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1176		mg/Kg		118	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-58152/2-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58152

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1134		mg/Kg		113	70 - 130	2	35
Toluene	0.100	0.09565		mg/Kg		96	70 - 130	6	35
Ethylbenzene	0.100	0.1082		mg/Kg		108	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2268		mg/Kg		113	70 - 130	6	35
o-Xylene	0.100	0.1115		mg/Kg		111	70 - 130	5	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-58153/5-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58153

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:15	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:15	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

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

Lab Sample ID: MB 880-58153/5-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58153

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/20/23 14:20	07/22/23 22:15	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/20/23 14:20	07/22/23 22:15	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/20/23 14:20	07/22/23 22:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	07/20/23 14:20	07/22/23 22:15	1
1,4-Difluorobenzene (Surr)	89		70 - 130	07/20/23 14:20	07/22/23 22:15	1

Lab Sample ID: LCS 880-58153/1-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1275		mg/Kg		127	70 - 130
Toluene	0.100	0.1089		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1194		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2473		mg/Kg		124	70 - 130
o-Xylene	0.100	0.1220		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-58153/2-A

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1125		mg/Kg		113	70 - 130	12	35
Toluene	0.100	0.09756		mg/Kg		98	70 - 130	11	35
Ethylbenzene	0.100	0.1099		mg/Kg		110	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2298		mg/Kg		115	70 - 130	7	35
o-Xylene	0.100	0.1139		mg/Kg		114	70 - 130	7	35

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

Lab Sample ID: 890-4956-12 MS

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: SS11

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.0994	0.1079		mg/Kg		109	70 - 130
Toluene	<0.00200	U F1 F2	0.0994	0.08779		mg/Kg		87	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.0994	0.09645		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.199	0.1954		mg/Kg		98	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

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

Lab Sample ID: 890-4956-12 MS

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: SS11

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	<0.00200	U F1 F2	0.0994	0.09653		mg/Kg		97	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-4956-12 MSD

Matrix: Solid

Analysis Batch: 58267

Client Sample ID: SS11

Prep Type: Total/NA

Prep Batch: 58153

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.0998	0.05218	F1 F2	mg/Kg		52	70 - 130	70	35
Toluene	<0.00200	U F1 F2	0.0998	0.04482	F1 F2	mg/Kg		44	70 - 130	65	35
Ethylbenzene	<0.00200	U F1 F2	0.0998	0.04466	F1 F2	mg/Kg		45	70 - 130	73	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.200	0.08105	F1 F2	mg/Kg		40	70 - 130	83	35
o-Xylene	<0.00200	U F1 F2	0.0998	0.04170	F1 F2	mg/Kg		41	70 - 130	79	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

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

Lab Sample ID: MB 880-58169/1-A

Matrix: Solid

Analysis Batch: 58603

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 58169

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 08:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 08:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/20/23 15:43	07/27/23 08:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	162	S1+	70 - 130	07/20/23 15:43	07/27/23 08:53	1
o-Terphenyl	150	S1+	70 - 130	07/20/23 15:43	07/27/23 08:53	1

Lab Sample ID: LCS 880-58169/2-A

Matrix: Solid

Analysis Batch: 58603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58169

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1008		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1021		mg/Kg		102	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

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

Lab Sample ID: LCS 880-58169/2-A

Matrix: Solid

Analysis Batch: 58603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 58169

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane	112		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-58169/3-A

Matrix: Solid

Analysis Batch: 58603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 58169

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	957.9		mg/Kg		96	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	964.6		mg/Kg		96	70 - 130	6	20

	LCSD %Recovery	LCSD Qualifier	Limits
Surrogate			
1-Chlorooctane	102		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-4929-A-1-D MS

Matrix: Solid

Analysis Batch: 58603

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 58169

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	<50.1	U F1	996	1476	F1	mg/Kg		147	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U F1	996	1447	F1	mg/Kg		143	70 - 130		

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1-Chlorooctane	147	S1+	70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 890-4929-A-1-E MSD

Matrix: Solid

Analysis Batch: 58603

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 58169

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 F1	996	1442	F1	mg/Kg		143	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	996	1395	F1	mg/Kg		138	70 - 130	4	20

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1-Chlorooctane	144	S1+	70 - 130
o-Terphenyl	112		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-58027/1-A

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/19/23 16:29	1

Lab Sample ID: LCS 880-58027/2-A

Matrix: Solid

Analysis Batch: 58062

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	240.6		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-58027/3-A

Matrix: Solid

Analysis Batch: 58062

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	240.4		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-30939-A-9-B MS

Matrix: Solid

Analysis Batch: 58062

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	11900		4970	16760		mg/Kg		98	90 - 110

Lab Sample ID: 880-30939-A-9-C MSD

Matrix: Solid

Analysis Batch: 58062

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	11900		4970	16790		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-58012/1-A

Matrix: Solid

Analysis Batch: 58102

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			07/20/23 08:34	1

Lab Sample ID: LCS 880-58012/2-A

Matrix: Solid

Analysis Batch: 58102

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	232.9		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-58012/3-A

Matrix: Solid

Analysis Batch: 58102

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	232.9		mg/Kg		93	90 - 110	0	20

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-4956-1 MS										Client Sample ID: SS01			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 58102													
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	71.7		249	299.5		mg/Kg		92	90 - 110				

Lab Sample ID: 890-4956-1 MSD										Client Sample ID: SS01			
Matrix: Solid										Prep Type: Soluble			
Analysis Batch: 58102													
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit		
Chloride	71.7		249	299.8		mg/Kg		92	90 - 110	0	20		

QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

GC VOA

Prep Batch: 58152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-1	SS01	Total/NA	Solid	5035	
890-4956-2	SS01A	Total/NA	Solid	5035	
890-4956-3	SS07	Total/NA	Solid	5035	
890-4956-4	SS03	Total/NA	Solid	5035	
890-4956-5	SS04	Total/NA	Solid	5035	
890-4956-6	SS05	Total/NA	Solid	5035	
890-4956-7	SS06	Total/NA	Solid	5035	
890-4956-8	SS02	Total/NA	Solid	5035	
890-4956-9	SS08	Total/NA	Solid	5035	
890-4956-10	SS09	Total/NA	Solid	5035	
890-4956-11	SS10	Total/NA	Solid	5035	
MB 880-58152/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58152/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58152/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 58153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-12	SS11	Total/NA	Solid	5035	
890-4956-13	SS12	Total/NA	Solid	5035	
MB 880-58153/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-58153/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-58153/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4956-12 MS	SS11	Total/NA	Solid	5035	
890-4956-12 MSD	SS11	Total/NA	Solid	5035	

Analysis Batch: 58267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-1	SS01	Total/NA	Solid	8021B	58152
890-4956-2	SS01A	Total/NA	Solid	8021B	58152
890-4956-3	SS07	Total/NA	Solid	8021B	58152
890-4956-4	SS03	Total/NA	Solid	8021B	58152
890-4956-5	SS04	Total/NA	Solid	8021B	58152
890-4956-6	SS05	Total/NA	Solid	8021B	58152
890-4956-7	SS06	Total/NA	Solid	8021B	58152
890-4956-8	SS02	Total/NA	Solid	8021B	58152
890-4956-9	SS08	Total/NA	Solid	8021B	58152
890-4956-10	SS09	Total/NA	Solid	8021B	58152
890-4956-11	SS10	Total/NA	Solid	8021B	58152
890-4956-12	SS11	Total/NA	Solid	8021B	58153
890-4956-13	SS12	Total/NA	Solid	8021B	58153
MB 880-58152/5-A	Method Blank	Total/NA	Solid	8021B	58152
MB 880-58153/5-A	Method Blank	Total/NA	Solid	8021B	58153
LCS 880-58152/1-A	Lab Control Sample	Total/NA	Solid	8021B	58152
LCS 880-58153/1-A	Lab Control Sample	Total/NA	Solid	8021B	58153
LCSD 880-58152/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58152
LCSD 880-58153/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	58153
890-4956-12 MS	SS11	Total/NA	Solid	8021B	58153
890-4956-12 MSD	SS11	Total/NA	Solid	8021B	58153

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

GC VOA

Analysis Batch: 58326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-1	SS01	Total/NA	Solid	Total BTEX	
890-4956-2	SS01A	Total/NA	Solid	Total BTEX	
890-4956-3	SS07	Total/NA	Solid	Total BTEX	
890-4956-4	SS03	Total/NA	Solid	Total BTEX	
890-4956-5	SS04	Total/NA	Solid	Total BTEX	
890-4956-6	SS05	Total/NA	Solid	Total BTEX	
890-4956-7	SS06	Total/NA	Solid	Total BTEX	
890-4956-8	SS02	Total/NA	Solid	Total BTEX	
890-4956-9	SS08	Total/NA	Solid	Total BTEX	
890-4956-10	SS09	Total/NA	Solid	Total BTEX	
890-4956-11	SS10	Total/NA	Solid	Total BTEX	
890-4956-12	SS11	Total/NA	Solid	Total BTEX	
890-4956-13	SS12	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 58169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-1	SS01	Total/NA	Solid	8015NM Prep	
890-4956-2	SS01A	Total/NA	Solid	8015NM Prep	
890-4956-3	SS07	Total/NA	Solid	8015NM Prep	
890-4956-4	SS03	Total/NA	Solid	8015NM Prep	
890-4956-5	SS04	Total/NA	Solid	8015NM Prep	
890-4956-6	SS05	Total/NA	Solid	8015NM Prep	
890-4956-7	SS06	Total/NA	Solid	8015NM Prep	
890-4956-8	SS02	Total/NA	Solid	8015NM Prep	
890-4956-9	SS08	Total/NA	Solid	8015NM Prep	
890-4956-10	SS09	Total/NA	Solid	8015NM Prep	
890-4956-11	SS10	Total/NA	Solid	8015NM Prep	
890-4956-12	SS11	Total/NA	Solid	8015NM Prep	
890-4956-13	SS12	Total/NA	Solid	8015NM Prep	
MB 880-58169/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-58169/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-58169/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4929-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4929-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 58603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-1	SS01	Total/NA	Solid	8015B NM	58169
890-4956-2	SS01A	Total/NA	Solid	8015B NM	58169
890-4956-3	SS07	Total/NA	Solid	8015B NM	58169
890-4956-4	SS03	Total/NA	Solid	8015B NM	58169
890-4956-5	SS04	Total/NA	Solid	8015B NM	58169
890-4956-6	SS05	Total/NA	Solid	8015B NM	58169
890-4956-7	SS06	Total/NA	Solid	8015B NM	58169
890-4956-8	SS02	Total/NA	Solid	8015B NM	58169
890-4956-9	SS08	Total/NA	Solid	8015B NM	58169
890-4956-10	SS09	Total/NA	Solid	8015B NM	58169
890-4956-11	SS10	Total/NA	Solid	8015B NM	58169
890-4956-12	SS11	Total/NA	Solid	8015B NM	58169

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

GC Semi VOA (Continued)

Analysis Batch: 58603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-13	SS12	Total/NA	Solid	8015B NM	58169
MB 880-58169/1-A	Method Blank	Total/NA	Solid	8015B NM	58169
LCS 880-58169/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	58169
LCSD 880-58169/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	58169
890-4929-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	58169
890-4929-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	58169

Analysis Batch: 58719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-1	SS01	Total/NA	Solid	8015 NM	
890-4956-2	SS01A	Total/NA	Solid	8015 NM	
890-4956-3	SS07	Total/NA	Solid	8015 NM	
890-4956-4	SS03	Total/NA	Solid	8015 NM	
890-4956-5	SS04	Total/NA	Solid	8015 NM	
890-4956-6	SS05	Total/NA	Solid	8015 NM	
890-4956-7	SS06	Total/NA	Solid	8015 NM	
890-4956-8	SS02	Total/NA	Solid	8015 NM	
890-4956-9	SS08	Total/NA	Solid	8015 NM	
890-4956-10	SS09	Total/NA	Solid	8015 NM	
890-4956-11	SS10	Total/NA	Solid	8015 NM	
890-4956-12	SS11	Total/NA	Solid	8015 NM	
890-4956-13	SS12	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 58012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-1	SS01	Soluble	Solid	DI Leach	
890-4956-2	SS01A	Soluble	Solid	DI Leach	
890-4956-3	SS07	Soluble	Solid	DI Leach	
890-4956-4	SS03	Soluble	Solid	DI Leach	
890-4956-5	SS04	Soluble	Solid	DI Leach	
890-4956-6	SS05	Soluble	Solid	DI Leach	
890-4956-7	SS06	Soluble	Solid	DI Leach	
890-4956-8	SS02	Soluble	Solid	DI Leach	
890-4956-9	SS08	Soluble	Solid	DI Leach	
890-4956-10	SS09	Soluble	Solid	DI Leach	
MB 880-58012/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58012/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58012/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4956-1 MS	SS01	Soluble	Solid	DI Leach	
890-4956-1 MSD	SS01	Soluble	Solid	DI Leach	

Leach Batch: 58027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-11	SS10	Soluble	Solid	DI Leach	
890-4956-12	SS11	Soluble	Solid	DI Leach	
890-4956-13	SS12	Soluble	Solid	DI Leach	
MB 880-58027/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-58027/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-58027/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

HPLC/IC (Continued)

Leach Batch: 58027 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30939-A-9-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-30939-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 58062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-11	SS10	Soluble	Solid	300.0	58027
890-4956-12	SS11	Soluble	Solid	300.0	58027
890-4956-13	SS12	Soluble	Solid	300.0	58027
MB 880-58027/1-A	Method Blank	Soluble	Solid	300.0	58027
LCS 880-58027/2-A	Lab Control Sample	Soluble	Solid	300.0	58027
LCSD 880-58027/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58027
880-30939-A-9-B MS	Matrix Spike	Soluble	Solid	300.0	58027
880-30939-A-9-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	58027

Analysis Batch: 58102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4956-1	SS01	Soluble	Solid	300.0	58012
890-4956-2	SS01A	Soluble	Solid	300.0	58012
890-4956-3	SS07	Soluble	Solid	300.0	58012
890-4956-4	SS03	Soluble	Solid	300.0	58012
890-4956-5	SS04	Soluble	Solid	300.0	58012
890-4956-6	SS05	Soluble	Solid	300.0	58012
890-4956-7	SS06	Soluble	Solid	300.0	58012
890-4956-8	SS02	Soluble	Solid	300.0	58012
890-4956-9	SS08	Soluble	Solid	300.0	58012
890-4956-10	SS09	Soluble	Solid	300.0	58012
MB 880-58012/1-A	Method Blank	Soluble	Solid	300.0	58012
LCS 880-58012/2-A	Lab Control Sample	Soluble	Solid	300.0	58012
LCSD 880-58012/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	58012
890-4956-1 MS	SS01	Soluble	Solid	300.0	58012
890-4956-1 MSD	SS01	Soluble	Solid	300.0	58012

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS01**Date Collected: 07/17/23 10:00****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-1****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	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 12:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 14:45	AJ	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 10:01	CH	EET MID

Client Sample ID: SS01A**Date Collected: 07/17/23 10:05****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-2****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 16:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 15:07	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 10:16	CH	EET MID

Client Sample ID: SS07**Date Collected: 07/17/23 09:20****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-3****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 16:48	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 15:29	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 10:22	CH	EET MID

Client Sample ID: SS03**Date Collected: 07/17/23 09:25****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-4****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 17:08	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS03**Date Collected: 07/17/23 09:25****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-4****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			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 16:13	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		5			58102	07/20/23 10:57	CH	EET MID

Client Sample ID: SS04**Date Collected: 07/17/23 09:30****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-5****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 17:29	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 16:34	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 11:02	CH	EET MID

Client Sample ID: SS05**Date Collected: 07/17/23 09:35****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-6****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 17:49	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 16:56	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		5			58102	07/20/23 11:07	CH	EET MID

Client Sample ID: SS06**Date Collected: 07/17/23 09:40****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 18:10	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 17:18	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS06**Date Collected: 07/17/23 09:40****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-7****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		5			58102	07/20/23 11:12	CH	EET MID

Client Sample ID: SS02**Date Collected: 07/17/23 10:40****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-8****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 18:30	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 17:40	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		5			58102	07/20/23 11:17	CH	EET MID

Client Sample ID: SS08**Date Collected: 07/17/23 10:45****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-9****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	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 18:51	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 18:02	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 11:22	CH	EET MID

Client Sample ID: SS09**Date Collected: 07/17/23 10:50****Date Received: 07/17/23 16:11****Lab Sample ID: 890-4956-10****Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 19:11	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 18:24	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	58012	07/19/23 10:11	KS	EET MID
Soluble	Analysis	300.0		1			58102	07/20/23 11:28	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Client Sample ID: SS10

Lab Sample ID: 890-4956-11

Date Collected: 07/17/23 10:55

Matrix: Solid

Date Received: 07/17/23 16:11

Prep 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	58152	07/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 19:32	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 18:46	AJ	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	58027	07/19/23 11:26	KS	EET MID
Soluble	Analysis	300.0		1			58062	07/19/23 18:43	CH	EET MID

Client Sample ID: SS11

Lab Sample ID: 890-4956-12

Date Collected: 07/17/23 11:00

Matrix: Solid

Date Received: 07/17/23 16:11

Prep 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	58153	07/20/23 14:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 22:37	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 19:07	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58027	07/19/23 11:26	KS	EET MID
Soluble	Analysis	300.0		1			58062	07/19/23 18:48	CH	EET MID

Client Sample ID: SS12

Lab Sample ID: 890-4956-13

Date Collected: 07/17/23 13:00

Matrix: Solid

Date Received: 07/17/23 16:11

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	58153	07/20/23 14:20	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	58267	07/22/23 22:57	SM	EET MID
Total/NA	Analysis	Total BTEX		1			58326	07/24/23 09:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			58719	07/28/23 11:50	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	58169	07/20/23 15:43	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	58603	07/27/23 19:29	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	58027	07/19/23 11:26	KS	EET MID
Soluble	Analysis	300.0		1			58062	07/19/23 18:53	CH	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: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

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

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

Method Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

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: PLU C-1 RECYCLE FACILITY

Job ID: 890-4956-1
SDG: 03C1558251

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4956-1	SS01	Solid	07/17/23 10:00	07/17/23 16:11	12
890-4956-2	SS01A	Solid	07/17/23 10:05	07/17/23 16:11	13
890-4956-3	SS07	Solid	07/17/23 09:20	07/17/23 16:11	0.5
890-4956-4	SS03	Solid	07/17/23 09:25	07/17/23 16:11	0.5
890-4956-5	SS04	Solid	07/17/23 09:30	07/17/23 16:11	0.5
890-4956-6	SS05	Solid	07/17/23 09:35	07/17/23 16:11	0.5
890-4956-7	SS06	Solid	07/17/23 09:40	07/17/23 16:11	0.5
890-4956-8	SS02	Solid	07/17/23 10:40	07/17/23 16:11	0.5
890-4956-9	SS08	Solid	07/17/23 10:45	07/17/23 16:11	0.5
890-4956-10	SS09	Solid	07/17/23 10:50	07/17/23 16:11	0.5
890-4956-11	SS10	Solid	07/17/23 10:55	07/17/23 16:11	0.5
890-4956-12	SS11	Solid	07/17/23 11:00	07/17/23 16:11	0.5
890-4956-13	SS12	Solid	07/17/23 13:00	07/17/23 16:11	0.5



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:	Ben Beill	Bill to: (if different)	Garrett Green
Company Name:	ENSOLUM, LLC	Company Name:	3104 E Greene St
Address:	3122 National Parks Hwy	Address:	Carlsbad, NM 88220
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	XTO Energy
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com

Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	PLU C-1 Recycle Facility	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number:	0301558251	Due Date:	5 days
Project Location:	32.21350, -103.80040	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Marianna O'Dell		
PO #:			
SAMPLE RECEIPT	Temp Blank: <input checked="" type="radio"/> Yes <input type="radio"/> No	Wet Ice: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Samples Received Intact:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Thermometer ID:	110003
Cooler Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Correction Factor:	-0.2
Sample Custody Seals:	<input checked="" type="radio"/> Yes <input type="radio"/> No	Temperature Reading:	3.8
Total Containers:		Corrected Temperature:	3.0



890-4856 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Preservative Codes	Sample Comments
SS01	S	7/17/23	10:00	12'	G	1	X Chlorides	None: NO	Incident #
SS01A							X BTEX	Cool: Cool	NAPP2310041404
SS02			09:20	0.5'			X TPH	HCL: HC	
SS03			09:25					H ₂ SO ₄ : H ₂	
SS04			09:30					H ₃ PO ₄ : HP	
SS05			09:35					NaHSO ₄ : NABIS	
SS06			09:40					Na ₂ S ₂ O ₅ : NaSO ₃	
SS07			10:40					Zn Acetate+NaOH: Zn	
SS08			10:45					NaOH+Ascorbic Acid: SACP	
SS09			10:50						

Total 200.7 / 6010 200.8 / 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 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>	7-17-23 16:12			



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:	Ben Bell	Bill to: (if different)	Garrett Green
Company Name:	ENSOLUM, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989-854-0852	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	PLU C-1 Peacock Facility	Turn Around		Pres. Code		ANALYSIS REQUEST																Preservative Codes	
Project Number:	0301558251	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																				None: NO	DI Water: H ₂ O
Project Location:	32.21356, 103.86040	Due Date:	5 days																			Cool: Cool	MeOH: Me
Sampler's Name:	MARIA O'Dell	TAT starts the day received by the lab, if received by 4:30pm																				HCL: HC	HNO ₃ : HN
PO #:		Temp Blank:	Yes No	Wet Ice:	Yes No																	H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT		Temp Blank:	Yes No	Thermometer ID:																		H ₃ PO ₄ : HP	
Samples Received Intact:	Yes No	Correction Factor:		Temperature Reading:																		NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes No N/A	Temperature Reading:																				Na ₂ S ₂ O ₃ : NASO ₃	
Sample Custody Seals:	Yes No N/A	Corrected Temperature:																				Zn Acetate+NaOH: Zn	
Total Containers:																						NaOH+Ascorbic Acid: SAPC	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters																Sample Comments
SS10	S	7/17/23	10:55	0.5'	G	1	X	X	X											Incident #:			
SS11			11:00																	NAAPP2316047404			
SS12			13:00																	Ben Bell			
																				Ybell@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 SIO ₂ Na Sr Ti Sn U V Zn					
Circle Method(s) and Metal(s) to be analyzed		TCIP / 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					
Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1. <i>Ben Bell</i>		<i>Ben Bell</i>		7.17.23 16:11							
3.											
5.											

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.

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record



Environmental Justice

Client Information (Sub Contract Lab)										Sampler	Lab PM	COC No												
Client Contact: Kramer, Jessica												890-1375-1												
Shipping/Receiving: Jessica Kramer@et.eurofins.com																								
Company: Eurofins Environment Testing South Central												Page 1 of 2												
Address: 1211 W. Florida Ave										Due Date Requested: 7/21/2023	Accreditations Required (See note): NELAP - Texas	Job #: 890-4956-1												
City: Midland										TAT Requested (days)	Analysis Requested													
State Zip: TX 79701																								
Phone: 432-704-5440 (Tel)										PO #														
Email: WO #																								
Project Name: PLU C-1 RECYCLE FACILITY										Project #: 89000093														
Site: SSO#																								
Sample Identification - Client ID (Lab ID)										Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=on-site, A=lab)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep (MOD) Full TPH	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/6036FP_Calc (MOD) BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:		
SS01 (890-4956-1)										7/17/23	10 00	Solid		X	X	X	X	X						
SS01A (890-4956-2)										7/17/23	10 05	Solid		X	X	X	X	X						
SS02 (890-4956-3)										7/17/23	09 20	Solid		X	X	X	X	X						
SS03 (890-4956-4)										7/17/23	09 25	Solid		X	X	X	X	X						
SS04 (890-4956-5)										7/17/23	09 30	Solid		X	X	X	X	X						
SS05 (890-4956-6)										7/17/23	09 35	Solid		X	X	X	X	X						
SS06 (890-4956-7)										7/17/23	09 40	Solid		X	X	X	X	X						
SS07 (890-4956-8)										7/17/23	10 40	Solid		X	X	X	X	X						
SS08 (890-4956-9)										7/17/23	10 45	Solid		X	X	X	X	X						
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analysis & 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 institutions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																								
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)														
Unconfirmed										<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months														
Deliverable Requested: I II III IV Other (specify)										Primary Deliverable Rank 2														
Empty Kit Relinquished by										Date	Time	Method of Shipment												
Relinquished by: <i>[Signature]</i>										Date/Time:		Date/Time:												
Relinquished by:										Date/Time:		Date/Time:												
Relinquished by:										Date/Time:		Date/Time:												
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No										Custody Seal No														
Cooler Temperature(s) °C and Other Remarks																								

Chain of Custody Record

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax 575-988-3199



Environmental Testing

Client Information (Sub Contract Lab)				Sampler		Lab PM		Carrier Tracking No(s)		COC No.	
Client Contact: Shipping/Receiving				Phone		Kramer, Jessica				890-1375 2	
Company: Eurofins Environment Testing South Central				E-Mail		Jessica.Kramer@et.eurofins.com		State of Origin: New Mexico		Page 2 of 2	
Address: 1211 W Florida Ave				Due Date Requested: 7/21/2023		Accreditations Required (See note): NELAP - Texas		Job #:		890-4956-1	
City: Midland				TAT Requested (days):		Analysis Requested					
State Zip: TX 79701											
Phone: 432-704-5440(Tel)											
Email:											
Project Name: PLU C-1 RECYCLE FACILITY				Project #: 89000093		Preservation Codes A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)					
Site: SSOV#											
Sample Identification - Client ID (Lab ID)											
Sample Date											
SS09 (890-4956-10)				7/17/23		10 50		Solid		X	
SS10 (890-4956-11)				7/17/23		10 56		Solid		X	
SS11 (890-4956-12)				7/17/23		11 00		Solid		X	
SS12 (890-4956-13)				7/17/23		13 00		Solid		X	
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontracted 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 institutions 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		Deliverable Requested I II III IV Other (specify)		Primary Deliverable Rank 2	
Empty Kit Relinquished by:				Date/Time		Date		Time		Method of Shipment:	
Relinquished by: <i>[Signature]</i>				Date/Time		Company		Received by: <i>[Signature]</i>		Date/Time	
Relinquished by:				Date/Time		Company		Received by:		Date/Time	
Relinquished by:				Date/Time		Company		Received by:		Date/Time	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No		Cooler Temperature(s) °C and Other Remarks					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4956-1

SDG Number: 03C1558251

Login Number: 4956

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4956-1

SDG Number: 03C1558251

Login Number: 4956

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 07/19/23 12:08 PM

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: Ben Belill

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 8/23/2023 11:49:56 AM

JOB DESCRIPTION

PLU C-1 RECYCLE FACILITY

SDG NUMBER 03C1558251

JOB NUMBER

890-5076-1

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
8/23/2023 11:49:56 AM

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

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Laboratory Job ID: 890-5076-1
SDG: 03C1558251

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Job ID: 890-5076-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-5076-1

Receipt

The samples were received on 8/10/2023 2:28 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH02 (890-5076-1), BH03 (890-5076-2), BH04 (890-5076-3), BH05 (890-5076-4) and BH06 (890-5076-5).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH02 (890-5076-1), BH03 (890-5076-2), BH04 (890-5076-3), BH05 (890-5076-4), BH06 (890-5076-5), (880-31900-A-14-E), (880-31900-A-14-F MS) and (880-31900-A-14-G MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-60605 and analytical batch 880-60637 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-60637/20), (CCV 880-60637/31) and (CCV 880-60637/5). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Client Sample ID: BH02
Date Collected: 08/10/23 08:55
Date Received: 08/10/23 14:28
Sample Depth: 1

Lab Sample ID: 890-5076-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00202	U	0.00202	mg/Kg	-	08/22/23 13:09	08/23/23 04:44	1	
Toluene	<0.00202	U	0.00202	mg/Kg	-	08/22/23 13:09	08/23/23 04:44	1	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg	-	08/22/23 13:09	08/23/23 04:44	1	
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg	-	08/22/23 13:09	08/23/23 04:44	1	
o-Xylene	<0.00202	U	0.00202	mg/Kg	-	08/22/23 13:09	08/23/23 04:44	1	
Xylenes, Total	<0.00403	U	0.00403	mg/Kg	-	08/22/23 13:09	08/23/23 04:44	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		70 - 130			08/22/23 13:09	08/23/23 04:44	1	
1,4-Difluorobenzene (Surr)	88		70 - 130			08/22/23 13:09	08/23/23 04:44	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	-		08/23/23 12:26	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	-		08/22/23 14:01	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	-	08/18/23 18:17	08/21/23 17:04	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	-	08/18/23 18:17	08/21/23 17:04	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	08/18/23 18:17	08/21/23 17:04	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	142	S1+	70 - 130			08/18/23 18:17	08/21/23 17:04	1	
o-Terphenyl	150	S1+	70 - 130			08/18/23 18:17	08/21/23 17:04	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	307		5.01	mg/Kg	-		08/15/23 01:39	1	

Client Sample ID: BH03
Date Collected: 08/10/23 10:25
Date Received: 08/10/23 14:28
Sample Depth: 4

Lab Sample ID: 890-5076-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg	-	08/22/23 13:09	08/23/23 05:04	1	
Toluene	<0.00200	U	0.00200	mg/Kg	-	08/22/23 13:09	08/23/23 05:04	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	-	08/22/23 13:09	08/23/23 05:04	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg	-	08/22/23 13:09	08/23/23 05:04	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg	-	08/22/23 13:09	08/23/23 05:04	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg	-	08/22/23 13:09	08/23/23 05:04	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	81		70 - 130			08/22/23 13:09	08/23/23 05:04	1	

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Client Sample ID: BH03
Date Collected: 08/10/23 10:25
Date Received: 08/10/23 14:28
Sample Depth: 4

Lab Sample ID: 890-5076-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,4-Difluorobenzene (Surr)	90		70 - 130			08/22/23 13:09	08/23/23 05:04	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			08/23/23 12:26	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7	mg/Kg			08/22/23 14:01	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		08/18/23 18:17	08/21/23 17:26	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		08/18/23 18:17	08/21/23 17:26	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		08/18/23 18:17	08/21/23 17:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	141	S1+	70 - 130			08/18/23 18:17	08/21/23 17:26	1	
o-Terphenyl	155	S1+	70 - 130			08/18/23 18:17	08/21/23 17:26	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	1340		4.97	mg/Kg			08/15/23 02:00	1	

Client Sample ID: BH04
Date Collected: 08/10/23 10:50
Date Received: 08/10/23 14:28
Sample Depth: 3

Lab Sample ID: 890-5076-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg		08/22/23 13:09	08/23/23 05:24	1	
Toluene	<0.00201	U	0.00201	mg/Kg		08/22/23 13:09	08/23/23 05:24	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		08/22/23 13:09	08/23/23 05:24	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		08/22/23 13:09	08/23/23 05:24	1	
o-Xylene	<0.00201	U	0.00201	mg/Kg		08/22/23 13:09	08/23/23 05:24	1	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		08/22/23 13:09	08/23/23 05:24	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	82		70 - 130			08/22/23 13:09	08/23/23 05:24	1	
1,4-Difluorobenzene (Surr)	97		70 - 130			08/22/23 13:09	08/23/23 05:24	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00402	U	0.00402	mg/Kg			08/23/23 12:26	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.3	U	50.3	mg/Kg			08/22/23 14:01	1	

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Client Sample ID: BH04

Lab Sample ID: 890-5076-3

Date Collected: 08/10/23 10:50

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 3

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		08/18/23 18:17	08/21/23 17:48	1	
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		08/18/23 18:17	08/21/23 17:48	1	
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		08/18/23 18:17	08/21/23 17:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	148	S1+	70 - 130			08/18/23 18:17	08/21/23 17:48	1	
o-Terphenyl	159	S1+	70 - 130			08/18/23 18:17	08/21/23 17:48	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	182		4.98	mg/Kg			08/15/23 02:07	1	

Client Sample ID: BH05

Lab Sample ID: 890-5076-4

Date Collected: 08/10/23 11:20

Matrix: Solid

Date Received: 08/10/23 14:28

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		08/22/23 13:09	08/23/23 05:45	1	
Toluene	<0.00199	U	0.00199	mg/Kg		08/22/23 13:09	08/23/23 05:45	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/22/23 13:09	08/23/23 05:45	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/22/23 13:09	08/23/23 05:45	1	
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/22/23 13:09	08/23/23 05:45	1	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		08/22/23 13:09	08/23/23 05:45	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	88		70 - 130			08/22/23 13:09	08/23/23 05:45	1	
1,4-Difluorobenzene (Surr)	95		70 - 130			08/22/23 13:09	08/23/23 05:45	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			08/23/23 12:26	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.1	U	50.1	mg/Kg			08/22/23 14:01	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		08/18/23 18:17	08/21/23 18:10	1	
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		08/18/23 18:17	08/21/23 18:10	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		08/18/23 18:17	08/21/23 18:10	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	142	S1+	70 - 130			08/18/23 18:17	08/21/23 18:10	1	
o-Terphenyl	149	S1+	70 - 130			08/18/23 18:17	08/21/23 18:10	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Client Sample ID: BH05

Lab Sample ID: 890-5076-4

Date Collected: 08/10/23 11:20

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.98	mg/Kg			08/15/23 02:14	1

Client Sample ID: BH06

Lab Sample ID: 890-5076-5

Date Collected: 08/10/23 11:50

Matrix: Solid

Date Received: 08/10/23 14:28

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		08/22/23 13:09	08/23/23 06:05	1
Toluene	<0.00198	U	0.00198	mg/Kg		08/22/23 13:09	08/23/23 06:05	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		08/22/23 13:09	08/23/23 06:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		08/22/23 13:09	08/23/23 06:05	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		08/22/23 13:09	08/23/23 06:05	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		08/22/23 13:09	08/23/23 06:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			08/22/23 13:09	08/23/23 06:05	1
1,4-Difluorobenzene (Surr)	94		70 - 130			08/22/23 13:09	08/23/23 06:05	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			08/23/23 12:26	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			08/22/23 14:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		08/18/23 18:17	08/21/23 18:31	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		08/18/23 18:17	08/21/23 18:31	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		08/18/23 18:17	08/21/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			08/18/23 18:17	08/21/23 18:31	1
o-Terphenyl	155	S1+	70 - 130			08/18/23 18:17	08/21/23 18:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	327		5.04	mg/Kg			08/15/23 02:22	1

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Surrogate Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

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)
890-5076-1	BH02	88	88
890-5076-1 MS	BH02	95	87
890-5076-1 MSD	BH02	94	87
890-5076-2	BH03	81	90
890-5076-3	BH04	82	97
890-5076-4	BH05	88	95
890-5076-5	BH06	95	94
LCS 880-60818/1-A	Lab Control Sample	87	95
LCSD 880-60818/2-A	Lab Control Sample Dup	99	86
MB 880-60732/5-A	Method Blank	99	119
MB 880-60818/5-A	Method Blank	102	107
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)
880-31900-A-14-F MS	Matrix Spike	163 S1+	154 S1+
880-31900-A-14-G MSD	Matrix Spike Duplicate	157 S1+	151 S1+
890-5076-1	BH02	142 S1+	150 S1+
890-5076-2	BH03	141 S1+	155 S1+
890-5076-3	BH04	148 S1+	159 S1+
890-5076-4	BH05	142 S1+	149 S1+
890-5076-5	BH06	136 S1+	155 S1+
LCS 880-60605/2-A	Lab Control Sample	96	108
LCSD 880-60605/3-A	Lab Control Sample Dup	102	117
MB 880-60605/1-A	Method Blank	155 S1+	171 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-60732/5-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 60782					Prep Batch: 60732				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		08/21/23 12:45	08/22/23 16:38	1	
Toluene	<0.00200	U	0.00200	mg/Kg		08/21/23 12:45	08/22/23 16:38	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/21/23 12:45	08/22/23 16:38	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/21/23 12:45	08/22/23 16:38	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/21/23 12:45	08/22/23 16:38	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/21/23 12:45	08/22/23 16:38	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	99		70 - 130			08/21/23 12:45	08/22/23 16:38	1	
1,4-Difluorobenzene (Surr)	119		70 - 130			08/21/23 12:45	08/22/23 16:38	1	

Lab Sample ID: MB 880-60818/5-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 60782						Prep Batch: 60818			
	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		08/22/23 13:09	08/23/23 04:15	1	
Toluene	<0.00200	U	0.00200	mg/Kg		08/22/23 13:09	08/23/23 04:15	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/22/23 13:09	08/23/23 04:15	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/22/23 13:09	08/23/23 04:15	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/22/23 13:09	08/23/23 04:15	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/22/23 13:09	08/23/23 04:15	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		70 - 130			08/22/23 13:09	08/23/23 04:15	1	
1,4-Difluorobenzene (Surr)	107		70 - 130			08/22/23 13:09	08/23/23 04:15	1	

Lab Sample ID: LCS 880-60818/1-A					Client Sample ID: Lab Control Sample						
Matrix: Solid					Prep Type: Total/NA						
Analysis Batch: 60782					Prep Batch: 60818						
Analyte			Spike	LCS	LCS				%Rec		
			Added	Result	Qualifier	Unit	D	%Rec	Limits		
	Benzene		0.100	0.09278		mg/Kg		93	70 - 130		
	Toluene		0.100	0.09141		mg/Kg		91	70 - 130		
	Ethylbenzene		0.100	0.09066		mg/Kg		91	70 - 130		
	m-Xylene & p-Xylene		0.200	0.1692		mg/Kg		85	70 - 130		
	o-Xylene		0.100	0.07807		mg/Kg		78	70 - 130		
LCS		LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	87		70 - 130								
1,4-Difluorobenzene (Surr)	95		70 - 130								

Lab Sample ID: LCSD 880-60818/2-A						Client Sample ID: Lab Control Sample Dup			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 60782						Prep Batch: 60818			
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08368		mg/Kg		84	70 - 130	10	35

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

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

Lab Sample ID: LCSD 880-60818/2-A

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60818

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits			
Toluene	0.100	0.08323		mg/Kg		83	70 - 130		9	35
Ethylbenzene	0.100	0.07555		mg/Kg		76	70 - 130		18	35
m-Xylene & p-Xylene	0.200	0.1427		mg/Kg		71	70 - 130		17	35
o-Xylene	0.100	0.07783		mg/Kg		78	70 - 130		0	35

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 890-5076-1 MS

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: BH02

Prep Type: Total/NA

Prep Batch: 60818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec	
									Limits	
Benzene	<0.00202	U	0.0996	0.09593		mg/Kg		96	70 - 130	
Toluene	<0.00202	U	0.0996	0.09713		mg/Kg		98	70 - 130	
Ethylbenzene	<0.00202	U	0.0996	0.09368		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1845		mg/Kg		93	70 - 130	
o-Xylene	<0.00202	U	0.0996	0.08567		mg/Kg		86	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

Lab Sample ID: 890-5076-1 MSD

Matrix: Solid

Analysis Batch: 60782

Client Sample ID: BH02

Prep Type: Total/NA

Prep Batch: 60818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
									Limits			
Benzene	<0.00202	U	0.0994	0.09673		mg/Kg		97	70 - 130		1	35
Toluene	<0.00202	U	0.0994	0.09088		mg/Kg		91	70 - 130		7	35
Ethylbenzene	<0.00202	U	0.0994	0.08148		mg/Kg		82	70 - 130		14	35
m-Xylene & p-Xylene	<0.00403	U	0.199	0.1538		mg/Kg		77	70 - 130		18	35
o-Xylene	<0.00202	U	0.0994	0.08412		mg/Kg		84	70 - 130		2	35

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	87		70 - 130

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

Lab Sample ID: MB 880-60605/1-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60605

Analyte	MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		08/18/23 18:17	08/21/23 07:55	1

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

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

Lab Sample ID: MB 880-60605/1-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 60605

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		08/18/23 18:17	08/21/23 07:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		08/18/23 18:17	08/21/23 07:55	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
1-Chlorooctane	155	S1+	70 - 130			08/18/23 18:17	08/21/23 07:55	1
o-Terphenyl	171	S1+	70 - 130			08/18/23 18:17	08/21/23 07:55	1

Lab Sample ID: LCS 880-60605/2-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 60605

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1006		mg/Kg		101	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	915.4		mg/Kg		92	70 - 130	
Surrogate		LCS	LCS					
		%Recovery	Qualifier					
1-Chlorooctane		96					70 - 130	
o-Terphenyl		108					70 - 130	

Lab Sample ID: LCSD 880-60605/3-A

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 60605

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD	Limit
		Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	951.8		mg/Kg		95	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	844.3		mg/Kg		84	70 - 130	8	20
Surrogate		LCSD	LCSD						
		%Recovery	Qualifier						
1-Chlorooctane		102					70 - 130		
o-Terphenyl		117					70 - 130		

Lab Sample ID: 880-31900-A-14-F MS

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 60605

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	1095		mg/Kg		106	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.3	U	997	1240		mg/Kg		121	70 - 130	
Surrogate	MS	MS								
	%Recovery	Qualifier								
1-Chlorooctane	163	S1+							70 - 130	
o-Terphenyl	154	S1+							70 - 130	

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

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

Lab Sample ID: 880-31900-A-14-G MSD

Matrix: Solid

Analysis Batch: 60637

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 60605

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	997	950.2		mg/Kg		91	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	<50.3	U	997	1198		mg/Kg		117	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	157	S1+	70 - 130								
o-Terphenyl	151	S1+	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-60092/1-A

Matrix: Solid

Analysis Batch: 60268

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			08/15/23 01:17	1

Lab Sample ID: LCS 880-60092/2-A

Matrix: Solid

Analysis Batch: 60268

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.5		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-60092/3-A

Matrix: Solid

Analysis Batch: 60268

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	258.5		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-5076-1 MS

Matrix: Solid

Analysis Batch: 60268

Client Sample ID: BH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	307		251	558.4		mg/Kg		100	90 - 110

Lab Sample ID: 890-5076-1 MSD

Matrix: Solid

Analysis Batch: 60268

Client Sample ID: BH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	307		251	559.7		mg/Kg		101	90 - 110	0	20

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

GC VOA

Prep Batch: 60732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-60732/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 60782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5076-1	BH02	Total/NA	Solid	8021B	60818
890-5076-2	BH03	Total/NA	Solid	8021B	60818
890-5076-3	BH04	Total/NA	Solid	8021B	60818
890-5076-4	BH05	Total/NA	Solid	8021B	60818
890-5076-5	BH06	Total/NA	Solid	8021B	60818
MB 880-60732/5-A	Method Blank	Total/NA	Solid	8021B	60732
MB 880-60818/5-A	Method Blank	Total/NA	Solid	8021B	60818
LCS 880-60818/1-A	Lab Control Sample	Total/NA	Solid	8021B	60818
LCSD 880-60818/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	60818
890-5076-1 MS	BH02	Total/NA	Solid	8021B	60818
890-5076-1 MSD	BH02	Total/NA	Solid	8021B	60818

Prep Batch: 60818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5076-1	BH02	Total/NA	Solid	5035	
890-5076-2	BH03	Total/NA	Solid	5035	
890-5076-3	BH04	Total/NA	Solid	5035	
890-5076-4	BH05	Total/NA	Solid	5035	
890-5076-5	BH06	Total/NA	Solid	5035	
MB 880-60818/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-60818/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-60818/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-5076-1 MS	BH02	Total/NA	Solid	5035	
890-5076-1 MSD	BH02	Total/NA	Solid	5035	

Analysis Batch: 60911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5076-1	BH02	Total/NA	Solid	Total BTEX	
890-5076-2	BH03	Total/NA	Solid	Total BTEX	
890-5076-3	BH04	Total/NA	Solid	Total BTEX	
890-5076-4	BH05	Total/NA	Solid	Total BTEX	
890-5076-5	BH06	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 60605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5076-1	BH02	Total/NA	Solid	8015NM Prep	
890-5076-2	BH03	Total/NA	Solid	8015NM Prep	
890-5076-3	BH04	Total/NA	Solid	8015NM Prep	
890-5076-4	BH05	Total/NA	Solid	8015NM Prep	
890-5076-5	BH06	Total/NA	Solid	8015NM Prep	
MB 880-60605/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-60605/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-60605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-31900-A-14-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-31900-A-14-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

GC Semi VOA

Analysis Batch: 60637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5076-1	BH02	Total/NA	Solid	8015B NM	60605
890-5076-2	BH03	Total/NA	Solid	8015B NM	60605
890-5076-3	BH04	Total/NA	Solid	8015B NM	60605
890-5076-4	BH05	Total/NA	Solid	8015B NM	60605
890-5076-5	BH06	Total/NA	Solid	8015B NM	60605
MB 880-60605/1-A	Method Blank	Total/NA	Solid	8015B NM	60605
LCS 880-60605/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	60605
LCSD 880-60605/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	60605
880-31900-A-14-F MS	Matrix Spike	Total/NA	Solid	8015B NM	60605
880-31900-A-14-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	60605

Analysis Batch: 60823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5076-1	BH02	Total/NA	Solid	8015 NM	
890-5076-2	BH03	Total/NA	Solid	8015 NM	
890-5076-3	BH04	Total/NA	Solid	8015 NM	
890-5076-4	BH05	Total/NA	Solid	8015 NM	
890-5076-5	BH06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 60092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5076-1	BH02	Soluble	Solid	DI Leach	
890-5076-2	BH03	Soluble	Solid	DI Leach	
890-5076-3	BH04	Soluble	Solid	DI Leach	
890-5076-4	BH05	Soluble	Solid	DI Leach	
890-5076-5	BH06	Soluble	Solid	DI Leach	
MB 880-60092/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-60092/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-60092/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-5076-1 MS	BH02	Soluble	Solid	DI Leach	
890-5076-1 MSD	BH02	Soluble	Solid	DI Leach	

Analysis Batch: 60268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5076-1	BH02	Soluble	Solid	300.0	60092
890-5076-2	BH03	Soluble	Solid	300.0	60092
890-5076-3	BH04	Soluble	Solid	300.0	60092
890-5076-4	BH05	Soluble	Solid	300.0	60092
890-5076-5	BH06	Soluble	Solid	300.0	60092
MB 880-60092/1-A	Method Blank	Soluble	Solid	300.0	60092
LCS 880-60092/2-A	Lab Control Sample	Soluble	Solid	300.0	60092
LCSD 880-60092/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	60092
890-5076-1 MS	BH02	Soluble	Solid	300.0	60092
890-5076-1 MSD	BH02	Soluble	Solid	300.0	60092

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Client Sample ID: BH02

Date Collected: 08/10/23 08:55

Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-1

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			4.96 g	5 mL	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 04:44	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60911	08/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60823	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 17:04	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	60092	08/14/23 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60268	08/15/23 01:39	SMC	EET MID

Client Sample ID: BH03

Date Collected: 08/10/23 10:25

Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-2

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			4.99 g	5 mL	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 05:04	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60911	08/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60823	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 17:26	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	60092	08/14/23 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60268	08/15/23 02:00	SMC	EET MID

Client Sample ID: BH04

Date Collected: 08/10/23 10:50

Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 05:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60911	08/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60823	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 17:48	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	60092	08/14/23 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60268	08/15/23 02:07	SMC	EET MID

Client Sample ID: BH05

Date Collected: 08/10/23 11:20

Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-4

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	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 05:45	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60911	08/23/23 12:26	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Client Sample ID: BH05

Date Collected: 08/10/23 11:20

Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-4

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			60823	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 18:10	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	60092	08/14/23 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60268	08/15/23 02:14	SMC	EET MID

Client Sample ID: BH06

Date Collected: 08/10/23 11:50

Date Received: 08/10/23 14:28

Lab Sample ID: 890-5076-5

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			5.05 g	5 mL	60818	08/22/23 13:09	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	60782	08/23/23 06:05	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			60911	08/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			60823	08/22/23 14:01	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	60605	08/18/23 18:17	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	60637	08/21/23 18:31	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	60092	08/14/23 09:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	60268	08/15/23 02:22	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: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

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

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

Method Summary

Client: Ensolum
Project/Site: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

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: PLU C-1 RECYCLE FACILITY

Job ID: 890-5076-1
SDG: 03C1558251

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-5076-1	BH02	Solid	08/10/23 08:55	08/10/23 14:28	1
890-5076-2	BH03	Solid	08/10/23 10:25	08/10/23 14:28	4
890-5076-3	BH04	Solid	08/10/23 10:50	08/10/23 14:28	3
890-5076-4	BH05	Solid	08/10/23 11:20	08/10/23 14:28	3
890-5076-5	BH06	Solid	08/10/23 11:50	08/10/23 14:28	3

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



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0350
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: _____

Page 1 of 1
www.xenco.com

Project Manager:	Ben Bellill	Bill to: (if different)	Garrett Green
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	989 - 854 - 0852	Email:	Garrett.Green@ExxonMobil.com

Work Order Comments	
Program:	UST/PST <input type="checkbox"/> PBP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="text"/>

[illegible][illegible]

Total 200.7/6010	200.8/6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Tl	Sn	U	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP/SPLP 6010 :	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Tl	U				Hg: 1631/245.1	77470	77471				

Notice: Signature of this document by the fulfillment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 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
1	M. J. [Signature]	[Signature]	8-10-23 1428			
2						
3						
4						
5						
6						

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



eurofins

Environment Testing

Client Information (Sub Contract Lab)					
Shipping/Receiving			Sampler	Laboratory Name:	COC No.
Eurofins Environment Testing South Cent			Phone	Kramer Jessica	890-1426 1
Address 121 W Florida Ave			Due Date Requested 8/16/2023	E-Mail Jessica.Kramer@eurofinus.com	Page Page 1 of 1
			TAT Requested (days):	Accreditations Required (See note): NELAP - Texas	Job #: 890-5076-1
City Midland			P.O.#	Preservation Codes	
State Zip TX, 79701			WO#	A - HCL	M Hexane
Phone 432-704-5440(Tel)			Project #	B NaOH	N None
Email			SSOW#	C - Zn Acetate	O AsNaO2
Project Name: PLU C-1 RECYCLE FACILITY				D Nitric Acid	P - Na2CO3S
Site				F - MeOH	R - Na2SO3
				G Amchlor	S H2SO4
				H - Ascobic Acid	T TSP Dodecylhydrate
				I Ice	V Acetone
				J - DI Water	W MCAA
				K EDTA	X pH 4.5
				L - EDA	Y - Trizma
				Z other (specify)	
Other					
Special Instructions/Note:					
Sample Identification - Client ID (Lab ID)					
BH02 (890-5076-1)	Sample Date 8/10/23	Sample Time 08:55	Sample Type (C=Comp, G=grab) BT-Tissue A-A/J	Matrix (w-water or-solid, O-washed, B-Tissue A-A/J)	Total Number of containers X
BH03 (890-5076-2)	8/10/23	Mountain 10:25		Solid	1
BH04 (890-5076-3)	8/10/23	Mountain 10:50		Solid	1
BH05 (890-5076-4)	8/10/23	Mountain 11:20		Solid	1
BH06 (890-5076-5)	8/10/23	Mountain 11:50		Solid	1
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other institutions 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 Deliverable Requested I, II III IV Other (specify) Primary Deliverable Rank: 2 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Dispose By Lab <input type="checkbox"/> Archive For _____ Months					
Empty Kit Relinquished by: Date: Method of Shipment:					
Relinquished by: Company: Received by: Date/Time: Company: Date/Time: Company:					
Relinquished by: Company: Received by: Date/Time: Company: Date/Time: Company:					
Cooler Temperature(s) °C and Other Remarks					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5076-1

SDG Number: 03C1558251

Login Number: 5076

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5076-1
SDG Number: 03C1558251

Login Number: 5076
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 08/14/23 08:11 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").	N/A	



APPENDIX E

NMOCD Notifications

Foust, Bryan Jacob

From: Green, Garrett J
Sent: Tuesday, May 30, 2023 10:24 PM
To: Enviro, OCD, EMNRD; Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Cc: DelawareSpills /SM; Pennington, Shelby G
Subject: XTO 24 Hour Notification - PLU C1 Water Line.

Follow Up Flag: Follow up
Flag Status: Flagged

All,

This is notification of a release greater than 25 barrels that occurred yesterday at the PLU C1 Water Line near the GPS coordinates given below. Details will be provided with a form C-141. Please contact us with any questions or concerns.

GPS: 32.21393,-103.86066

Thank you,

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: [Hamlet, Robert, EMNRD](#)
To: [Collins, Melanie Suzanne](#)
Cc: [Green, Garrett J](#); [DelawareSpills /SM](#); [Ben Belill](#); [Ashley Ager](#); [Ashley Giovengo](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: (Extension Approval) - XTO - PLU C-1 Recycle Facility - Incident Number NAPP2316047464
Date: Friday, August 25, 2023 5:39:31 PM
Attachments: [image003.png](#)

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2316047464

Melanie,

Your request for an extension to **November 25th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, August 25, 2023 3:27 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] XTO - Extension Request - PLU C-1 Recycle Facility - Incident Number NAPP2316047464

From: Collins, Melanie <melanie.collins@exxonmobil.com>
Sent: Friday, August 25, 2023 12:19 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Green, Garrett J <garrett.green@exxonmobil.com>; [DelawareSpills /SM](#) <DelawareSpills@exxonmobil.com>; [bbelill@ensolum.com](#); [Ashley Ager](#) <aager@ensolum.com>; [Ashley Giovengo](#) <agiovengo@ensolum.com>
Subject: [EXTERNAL] XTO - Extension Request - PLU C-1 Recycle Facility - Incident Number NAPP2316047464

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

XTO is requesting an extension for the current deadline of August 27, 2023 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the PLU C-1 Recycle Facility (Incident Number NAPP2316047464). The release occurred on May 27, 2023, and initial site assessment and delineation activities have been conducted. Based on delineation soil sample laboratory analytical results, excavation of impacted soil is needed. In order to complete delineation and excavation activities, review laboratory analytical results, and submit a remediation work plan or closure report, XTO requests an extension until November 25, 2023.

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: [Collins, Melanie](#)
To: [Ben Belill](#); [Green, Garrett J](#)
Subject: FW: XTO - Sampling Notification (Week of 8/7/23 - 8/11/23)
Date: Monday, August 28, 2023 9:32:07 AM
Attachments: [image001.png](#)

[**EXTERNAL EMAIL**]

Here you go!

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com

432-556-3756

From: Collins, Melanie
Sent: Thursday, August 3, 2023 10:20 AM
To: ocd.enviro (ocd.enviro@emnrd.nm.gov) <ocd.enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD (Robert.Hamlet@emnrd.nm.gov) <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD (mike.bratcher@emnrd.nm.gov) <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD (Jocelyn.Harimon@emnrd.nm.gov) <Jocelyn.Harimon@emnrd.nm.gov>
Cc: Green, Garrett J <garrett.green@exxonmobil.com>
Subject: XTO - Sampling Notification (Week of 8/7/23 - 8/11/23)

All,

XTO plans to complete final sampling activities at the sites listed below for the week of August 7, 2023.

Thursday

- PLU C-1 Recycle Facility / nAPP2316047464

Friday

- BEU 70 / NAPP2318139530

Thank you,

Melanie Collins



Environmental Technician

melanie.collins@exxonmobil.com



APPENDIX B

Photographic Log



Photographic Log
 XTO Energy, Inc.
 PLUC 1 Recycle Facility
 NAPP2316047464



Photograph: 1 Date: 2/26/2024
 Description: Excavation activities
 View: Southwest



Photograph: 2 Date: 2/27/2024
 Description: Excavation activities
 View: Southwest



Photograph: 3 Date: 2/28/2024
 Description: Excavation activities
 View: Northeast



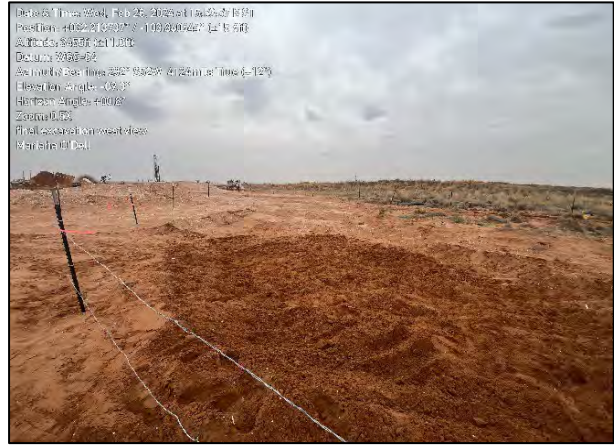
Photograph: 4 Date: 2/28/2024
 Description: Excavation activities
 View: Southwest



Photographic Log
XTO Energy, Inc.
PLUC 1 Recycle Facility
NAPP2316047464



Photograph: 5 Date: 2/28/2024
Description: Excavation activities
View: Southwest



Photograph: 6 Date: 2/28/2024
Description: Excavation activities
View: Southwest



Photograph: 7 Date: 4/16/2024
Description: Excavation activities at FS38
View: Southwest



Photograph: 8 Date: 4/16/2024
Description: Excavation activities at FS26
View: Southwest



Photographic Log
XTO Energy, Inc.
PLUC 1 Recycle Facility
NAPP2316047464



Photograph: 9 Date: 5/01/2024
Description: Backfilled excavation
View: South



Photograph: 10 Date: 5/01/2024
Description: Backfilled excavation
View: North



Photograph: 11 Date: 5/01/2024
Description: Backfilled excavation
View: North





Photograph: 12 Date: 5/01/2024
Description: Backfilled excavation
View: Northeast





APPENDIX B

Lithologic / Soil Sampling Logs

 ENSOLUM								Sample Name: BH07		Date: 2/28/2024	
								Site Name: PLUC 1 Recycle Facility			
								Incident Number: nAPP2316047464			
								Job Number: 03C1558251			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell		Method: Hand Auger	
Coordinates: 32.213541, -103.860771								Hole Diameter: 6"		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. All chloride measurements made with a + 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	<162.4	0.0	N	BH07	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, well graded, trace CCHE, dry.			
D	<162.4	0.0	N	BH07A	1	1	SP	Sand. Reddish brown, very fine to fine grained, poorly graded, trace CCHE, dry.			
D	<162.4	0.0	N	BH07B	2	2					
D	<162.4	0.0	N	BH07C	3	3		No CCHE.			
D	<162.4	0.0	N	BH07D	4	4					
Total Depth @ 4' bgs.											

 ENSOLUM								Sample Name: BH08		Date: 2/28/2024	
								Site Name: PLUC 1 Recycle Facility			
								Incident Number: nAPP2316047464			
								Job Number: 03C1558251			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell		Method: Hand Auger	
Coordinates: 32,213520, -103.860803								Hole Diameter: 6"		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. All chloride measurements made with a + 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	<162.4	0.0	N	BH08	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, well graded, trace CCHE, dry.			
D	<162.4	0.0	N	BH08A	1	1	SP	Sand. Reddish brown, very fine to fine grained, poorly graded, trace CCHE, dry.			
D	<162.4	0.0	N	BH08B	2	2		No CCHE.			
D	<162.4	0.0	N	BH08C	3	3					
D	<162.4	0.0	N	BH08D	4	4					
Total Depth @ 4' bgs.											

 ENSOLUM								Sample Name: BH09		Date: 2/28/2024	
								Site Name: PLUC 1 Recycle Facility			
								Incident Number: nAPP2316047464			
								Job Number: 03C1558251			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell		Method: Hand Auger	
Coordinates: 32.213558, -103.860788								Hole Diameter: 6"		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. All chloride measurements made with a + 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	<162.4	0.0	N	BH09	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, well graded, trace CCHE, dry.			
D	<162.4	0.0	N	BH09A	1	1	SP	Sand. Reddish brown, very fine to fine grained, poorly graded, dry.			
D	<162.4	0.0	N	BH09B	2	2					
D	<162.4	0.0	N	BH09C	3	3					
D	<162.4	0.0	N	BH09D	4	4					
Total Depth @ 4' bgs.											

 ENSOLUM								Sample Name: BH10		Date: 2/28/2024	
								Site Name: PLUC 1 Recycle Facility			
								Incident Number: nAPP2316047464			
								Job Number: 03C1558251			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: M. O'Dell		Method: Hand Auger	
Coordinates: 32.213539, -103.860840								Hole Diameter: 6"		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. All chloride measurements made with a + 40% correction factor.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
D	<162.4	0.0	N	BH10	0.5	0.5	SW	Sand. Reddish brown, very fine to fine grained, <u>well graded</u> , dry.			
D	<162.4	0.0	N	BH10A	1	1	SP	Sand. Reddish brown, very fine to fine grained, <u>poorly graded</u> , dry.			
D	<162.4	0.0	N	BH10B	2	2					
D	347.2	0.0	N	BH10C	3	3					
D	498.4	0.0	N	BH10D	4	4					
Total Depth @ 4' bgs.											



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 3/4/2024 8:28:19 PM

JOB DESCRIPTION

PLU C-1 Recycle Facility
03C1558251

JOB NUMBER

890-6267-1

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
3/4/2024 8:28:19 PM

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

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Laboratory Job ID: 890-6267-1
SDG: 03C1558251

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Qualifiers

GC 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.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: PLU C-1 Recycle Facility

Job ID: 890-6267-1

Job ID: 890-6267-1

Eurofins Carlsbad

Job Narrative 890-6267-1

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 2/27/2024 3:39 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 2.0°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-6267-1), FS02 (890-6267-2), FS03 (890-6267-3), FS04 (890-6267-4), FS05 (890-6267-5), SW01 (890-6267-6), SW02 (890-6267-7), FS06 (890-6267-8), FS07 (890-6267-9), FS08 (890-6267-10), FS09 (890-6267-11), FS10 (890-6267-12), FS11 (890-6267-13), FS12 (890-6267-14), SW03 (890-6267-15), SW04 (890-6267-16), FS14 (890-6267-17), FS15 (890-6267-18), FS16 (890-6267-19) and FS17 (890-6267-20).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74450 and analytical batch 880-74455 was outside the upper control limits.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-74450 and analytical batch 880-74455 recovered outside control limits for the following analytes: o-Xylene.

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 880-74498 and analytical batch 880-74513 was outside the upper control limits.

Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-74498 and analytical batch 880-74513 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.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-74513 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-74513/5).

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74221 and analytical batch 880-74486 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.

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS01

Lab Sample ID: 890-6267-1

Date Collected: 02/26/24 10:25

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 12:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/24 08:24	03/01/24 12:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/24 08:24	03/01/24 12:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/24 08:24	03/01/24 12:44	1
o-Xylene	<0.00199	U *1	0.00199	mg/Kg		03/01/24 08:24	03/01/24 12:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/24 08:24	03/01/24 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/01/24 08:24	03/01/24 12:44	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/01/24 08:24	03/01/24 12:44	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			03/01/24 12:44	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			03/02/24 11:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		03/01/24 14:27	03/02/24 11:28	1
Diesel Range Organics (Over C10-C28)	<50.4	U *+	50.4	mg/Kg		03/01/24 14:27	03/02/24 11:28	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		03/01/24 14:27	03/02/24 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130	03/01/24 14:27	03/02/24 11:28	1
o-Terphenyl	124		70 - 130	03/01/24 14:27	03/02/24 11:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.9	F1	5.04	mg/Kg			03/03/24 18:08	1

Client Sample ID: FS02

Lab Sample ID: 890-6267-2

Date Collected: 02/26/24 10:30

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 13:04	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/01/24 08:24	03/01/24 13:04	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/01/24 08:24	03/01/24 13:04	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/01/24 08:24	03/01/24 13:04	1
o-Xylene	<0.00202	U *1	0.00202	mg/Kg		03/01/24 08:24	03/01/24 13:04	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/01/24 08:24	03/01/24 13:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/01/24 08:24	03/01/24 13:04	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/01/24 08:24	03/01/24 13:04	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS02

Lab Sample ID: 890-6267-2

Date Collected: 02/26/24 10:30

Matrix: Solid

Date Received: 02/27/24 15:39

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			03/01/24 13:04	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			03/02/24 12:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		03/01/24 14:27	03/02/24 12:34	1
Diesel Range Organics (Over C10-C28)	<50.5	U **	50.5	mg/Kg		03/01/24 14:27	03/02/24 12:34	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		03/01/24 14:27	03/02/24 12:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			03/01/24 14:27	03/02/24 12:34	1
o-Terphenyl	126		70 - 130			03/01/24 14:27	03/02/24 12:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.0		5.02	mg/Kg			03/03/24 18:38	1

Client Sample ID: FS03

Lab Sample ID: 890-6267-3

Date Collected: 02/26/24 10:35

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 13:25	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/01/24 08:24	03/01/24 13:25	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/01/24 08:24	03/01/24 13:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/01/24 08:24	03/01/24 13:25	1
o-Xylene	<0.00201	U *1	0.00201	mg/Kg		03/01/24 08:24	03/01/24 13:25	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/01/24 08:24	03/01/24 13:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/01/24 08:24	03/01/24 13:25	1
1,4-Difluorobenzene (Surr)	107		70 - 130			03/01/24 08:24	03/01/24 13:25	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			03/01/24 13:25	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			03/02/24 12:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/01/24 14:27	03/02/24 12:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U **	49.9	mg/Kg		03/01/24 14:27	03/02/24 12:56	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS03

Lab Sample ID: 890-6267-3

Date Collected: 02/26/24 10:35

Matrix: Solid

Date Received: 02/27/24 15:39

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/01/24 14:27	03/02/24 12:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			03/01/24 14:27	03/02/24 12:56	1
o-Terphenyl	121		70 - 130			03/01/24 14:27	03/02/24 12:56	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	108		5.02	mg/Kg			03/03/24 18:48	1

Client Sample ID: FS04

Lab Sample ID: 890-6267-4

Date Collected: 02/26/24 11:10

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 13:45	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 13:45	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 13:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/01/24 08:24	03/01/24 13:45	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/01/24 08:24	03/01/24 13:45	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/01/24 08:24	03/01/24 13:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			03/01/24 08:24	03/01/24 13:45	1
1,4-Difluorobenzene (Surr)	118		70 - 130			03/01/24 08:24	03/01/24 13:45	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			03/01/24 13:45	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			03/02/24 13:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		03/01/24 14:27	03/02/24 13:18	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7	mg/Kg		03/01/24 14:27	03/02/24 13:18	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/01/24 14:27	03/02/24 13:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			03/01/24 14:27	03/02/24 13:18	1
o-Terphenyl	116		70 - 130			03/01/24 14:27	03/02/24 13:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.3		5.01	mg/Kg			03/03/24 18:58	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS05

Lab Sample ID: 890-6267-5

Date Collected: 02/26/24 11:15

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 14:06	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 14:06	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 14:06	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/01/24 08:24	03/01/24 14:06	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/01/24 08:24	03/01/24 14:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/01/24 08:24	03/01/24 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	03/01/24 08:24	03/01/24 14:06	1
1,4-Difluorobenzene (Surr)	105		70 - 130	03/01/24 08:24	03/01/24 14:06	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			03/01/24 14:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			03/02/24 13:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		03/01/24 14:27	03/02/24 13:40	1
Diesel Range Organics (Over C10-C28)	<49.6	U **	49.6	mg/Kg		03/01/24 14:27	03/02/24 13:40	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		03/01/24 14:27	03/02/24 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	03/01/24 14:27	03/02/24 13:40	1
o-Terphenyl	100		70 - 130	03/01/24 14:27	03/02/24 13:40	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	90.9		4.97	mg/Kg			03/03/24 19:08	1

Client Sample ID: SW01

Lab Sample ID: 890-6267-6

Date Collected: 02/26/24 11:20

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 14:26	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/01/24 08:24	03/01/24 14:26	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/01/24 08:24	03/01/24 14:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		03/01/24 08:24	03/01/24 14:26	1
o-Xylene	<0.00198	U *1	0.00198	mg/Kg		03/01/24 08:24	03/01/24 14:26	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		03/01/24 08:24	03/01/24 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	03/01/24 08:24	03/01/24 14:26	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/01/24 08:24	03/01/24 14:26	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: SW01

Lab Sample ID: 890-6267-6

Date Collected: 02/26/24 11:20

Matrix: Solid

Date Received: 02/27/24 15:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			03/01/24 14:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			03/02/24 14:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		03/01/24 14:27	03/02/24 14:02	1
Diesel Range Organics (Over C10-C28)	<50.2	U **	50.2	mg/Kg		03/01/24 14:27	03/02/24 14:02	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		03/01/24 14:27	03/02/24 14:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			03/01/24 14:27	03/02/24 14:02	1
o-Terphenyl	112		70 - 130			03/01/24 14:27	03/02/24 14:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.9		4.63	mg/Kg			03/03/24 19:37	1

Client Sample ID: SW02

Lab Sample ID: 890-6267-7

Date Collected: 02/26/24 11:25

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 14:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 14:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 14:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/24 08:24	03/01/24 14:47	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/01/24 08:24	03/01/24 14:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/24 08:24	03/01/24 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/24 08:24	03/01/24 14:47	1
1,4-Difluorobenzene (Surr)	105		70 - 130			03/01/24 08:24	03/01/24 14:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/01/24 14:47	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			03/02/24 14:25	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	<50.4	U	50.4	mg/Kg		03/01/24 14:27	03/02/24 14:25	1
Diesel Range Organics (Over C10-C28)	<50.4	U **	50.4	mg/Kg		03/01/24 14:27	03/02/24 14:25	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: SW02

Lab Sample ID: 890-6267-7

Date Collected: 02/26/24 11:25

Matrix: Solid

Date Received: 02/27/24 15:39

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		03/01/24 14:27	03/02/24 14:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			03/01/24 14:27	03/02/24 14:25	1
o-Terphenyl	106		70 - 130			03/01/24 14:27	03/02/24 14:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.3		4.98	mg/Kg			03/03/24 19:47	1

Client Sample ID: FS06

Lab Sample ID: 890-6267-8

Date Collected: 02/26/24 13:05

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 15:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/24 08:24	03/01/24 15:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/24 08:24	03/01/24 15:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/24 08:24	03/01/24 15:07	1
o-Xylene	<0.00199	U *	0.00199	mg/Kg		03/01/24 08:24	03/01/24 15:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/24 08:24	03/01/24 15:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			03/01/24 08:24	03/01/24 15:07	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/01/24 08:24	03/01/24 15:07	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			03/01/24 15:07	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			03/02/24 14:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		03/01/24 14:27	03/02/24 14:47	1
Diesel Range Organics (Over C10-C28)	<50.5	U *	50.5	mg/Kg		03/01/24 14:27	03/02/24 14:47	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		03/01/24 14:27	03/02/24 14:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130			03/01/24 14:27	03/02/24 14:47	1
o-Terphenyl	114		70 - 130			03/01/24 14:27	03/02/24 14:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.5		5.02	mg/Kg			03/03/24 19:57	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS07

Lab Sample ID: 890-6267-9

Date Collected: 02/26/24 13:15

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 15:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/01/24 08:24	03/01/24 15:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/01/24 08:24	03/01/24 15:28	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/01/24 08:24	03/01/24 15:28	1
o-Xylene	<0.00198	U *1	0.00198	mg/Kg		03/01/24 08:24	03/01/24 15:28	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/01/24 08:24	03/01/24 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	03/01/24 08:24	03/01/24 15:28	1
1,4-Difluorobenzene (Surr)	109		70 - 130	03/01/24 08:24	03/01/24 15:28	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			03/01/24 15:28	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			03/02/24 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	<49.7	U	49.7	mg/Kg		03/01/24 14:27	03/02/24 15:09	1
Diesel Range Organics (Over C10-C28)	<49.7	U *+	49.7	mg/Kg		03/01/24 14:27	03/02/24 15:09	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/01/24 14:27	03/02/24 15:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/01/24 14:27	03/02/24 15:09	1
o-Terphenyl	117		70 - 130	03/01/24 14:27	03/02/24 15:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.7		5.03	mg/Kg			03/03/24 20:07	1

Client Sample ID: FS08

Lab Sample ID: 890-6267-10

Date Collected: 02/26/24 13:25

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 15:48	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/01/24 08:24	03/01/24 15:48	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/01/24 08:24	03/01/24 15:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/01/24 08:24	03/01/24 15:48	1
o-Xylene	<0.00202	U *1	0.00202	mg/Kg		03/01/24 08:24	03/01/24 15:48	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/01/24 08:24	03/01/24 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	03/01/24 08:24	03/01/24 15:48	1
1,4-Difluorobenzene (Surr)	107		70 - 130	03/01/24 08:24	03/01/24 15:48	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS08

Lab Sample ID: 890-6267-10

Date Collected: 02/26/24 13:25

Matrix: Solid

Date Received: 02/27/24 15:39

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			03/01/24 15:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/02/24 15:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/01/24 14:27	03/02/24 15:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8	mg/Kg		03/01/24 14:27	03/02/24 15:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/01/24 14:27	03/02/24 15:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			03/01/24 14:27	03/02/24 15:31	1
o-Terphenyl	104		70 - 130			03/01/24 14:27	03/02/24 15:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.7		5.05	mg/Kg			03/03/24 20:17	1

Client Sample ID: FS09

Lab Sample ID: 890-6267-11

Date Collected: 02/26/24 09:30

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 18:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/01/24 08:24	03/01/24 18:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/01/24 08:24	03/01/24 18:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/01/24 08:24	03/01/24 18:05	1
o-Xylene	<0.00201	U *1	0.00201	mg/Kg		03/01/24 08:24	03/01/24 18:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/01/24 08:24	03/01/24 18:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130			03/01/24 08:24	03/01/24 18:05	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/01/24 08:24	03/01/24 18:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/01/24 18:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/02/24 16:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/01/24 14:27	03/02/24 16:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U **	49.8	mg/Kg		03/01/24 14:27	03/02/24 16:15	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS09

Lab Sample ID: 890-6267-11

Date Collected: 02/26/24 09:30

Matrix: Solid

Date Received: 02/27/24 15:39

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/01/24 14:27	03/02/24 16:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			03/01/24 14:27	03/02/24 16:15	1
o-Terphenyl	97		70 - 130			03/01/24 14:27	03/02/24 16:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.4		5.04	mg/Kg			03/03/24 20:27	1

Client Sample ID: FS10

Lab Sample ID: 890-6267-12

Date Collected: 02/26/24 09:35

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 18:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 18:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 18:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/01/24 08:24	03/01/24 18:25	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/01/24 08:24	03/01/24 18:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/01/24 08:24	03/01/24 18:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			03/01/24 08:24	03/01/24 18:25	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/01/24 08:24	03/01/24 18:25	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/01/24 18:25	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			03/02/24 16:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5	mg/Kg		03/01/24 14:27	03/02/24 16:37	1
Diesel Range Organics (Over C10-C28)	<50.5	U **	50.5	mg/Kg		03/01/24 14:27	03/02/24 16:37	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		03/01/24 14:27	03/02/24 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/01/24 14:27	03/02/24 16:37	1
o-Terphenyl	106		70 - 130			03/01/24 14:27	03/02/24 16:37	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.9		5.04	mg/Kg			03/03/24 20:57	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS11
Date Collected: 02/26/24 12:10
Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 18:46	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 18:46	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 18:46	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/01/24 08:24	03/01/24 18:46	1	
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/01/24 08:24	03/01/24 18:46	1	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/01/24 08:24	03/01/24 18:46	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			03/01/24 08:24	03/01/24 18:46	1	
1,4-Difluorobenzene (Surr)	119		70 - 130			03/01/24 08:24	03/01/24 18:46	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/01/24 18:46	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Total TPH	<50.1	U	50.1	mg/Kg			03/02/24 16:59	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		03/01/24 14:27	03/02/24 16:59	1	
Diesel Range Organics (Over C10-C28)	<50.1	U *+	50.1	mg/Kg		03/01/24 14:27	03/02/24 16:59	1	
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		03/01/24 14:27	03/02/24 16:59	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
1-Chlorooctane	92		70 - 130			03/01/24 14:27	03/02/24 16:59	1	
o-Terphenyl	98		70 - 130			03/01/24 14:27	03/02/24 16:59	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	75.7		4.99	mg/Kg			03/03/24 21:07	1	

Client Sample ID: FS12
Date Collected: 02/26/24 09:45
Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-14
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/01/24 08:24	03/01/24 19:06	1	
Toluene	<0.00198	U	0.00198	mg/Kg		03/01/24 08:24	03/01/24 19:06	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/01/24 08:24	03/01/24 19:06	1	
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		03/01/24 08:24	03/01/24 19:06	1	
o-Xylene	<0.00198	U *1	0.00198	mg/Kg		03/01/24 08:24	03/01/24 19:06	1	
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		03/01/24 08:24	03/01/24 19:06	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil	Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			03/01/24 08:24	03/01/24 19:06	1	
1,4-Difluorobenzene (Surr)	114		70 - 130			03/01/24 08:24	03/01/24 19:06	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS12

Lab Sample ID: 890-6267-14

Date Collected: 02/26/24 09:45

Matrix: Solid

Date Received: 02/27/24 15:39

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			03/01/24 19:06	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			03/02/24 17:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4	mg/Kg		03/01/24 14:27	03/02/24 17:21	1
Diesel Range Organics (Over C10-C28)	<50.4	U **	50.4	mg/Kg		03/01/24 14:27	03/02/24 17:21	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		03/01/24 14:27	03/02/24 17:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			03/01/24 14:27	03/02/24 17:21	1
o-Terphenyl	106		70 - 130			03/01/24 14:27	03/02/24 17:21	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	154		4.98	mg/Kg			03/03/24 21:36	1

Client Sample ID: SW03

Lab Sample ID: 890-6267-15

Date Collected: 02/26/24 09:50

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 19:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 19:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 19:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/24 08:24	03/01/24 19:27	1
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/01/24 08:24	03/01/24 19:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/24 08:24	03/01/24 19:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			03/01/24 08:24	03/01/24 19:27	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/01/24 08:24	03/01/24 19:27	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			03/01/24 19:27	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			03/02/24 17:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		03/01/24 14:27	03/02/24 17:44	1
Diesel Range Organics (Over C10-C28)	<49.7	U **	49.7	mg/Kg		03/01/24 14:27	03/02/24 17:44	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: SW03

Lab Sample ID: 890-6267-15

Date Collected: 02/26/24 09:50

Matrix: Solid

Date Received: 02/27/24 15:39

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/01/24 14:27	03/02/24 17:44	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	88		70 - 130			03/01/24 14:27	03/02/24 17:44	1	
o-Terphenyl	96		70 - 130			03/01/24 14:27	03/02/24 17:44	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	98.4		5.00	mg/Kg			03/03/24 21:46	1	

Client Sample ID: SW04

Lab Sample ID: 890-6267-16

Date Collected: 02/26/24 09:55

Matrix: Solid

Date Received: 02/27/24 15:39

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	-	03/01/24 08:24	03/01/24 19:47	1	
Toluene	<0.00198	U	0.00198	mg/Kg	-	03/01/24 08:24	03/01/24 19:47	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg	-	03/01/24 08:24	03/01/24 19:47	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg	-	03/01/24 08:24	03/01/24 19:47	1	
o-Xylene	<0.00198	U *1	0.00198	mg/Kg	-	03/01/24 08:24	03/01/24 19:47	1	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg	-	03/01/24 08:24	03/01/24 19:47	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	114		70 - 130			03/01/24 08:24	03/01/24 19:47	1	
1,4-Difluorobenzene (Surr)	113		70 - 130			03/01/24 08:24	03/01/24 19:47	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	-		03/01/24 19:47	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg	-		03/02/24 18:05	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg	-	03/01/24 14:27	03/02/24 18:05	1	
Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg	-	03/01/24 14:27	03/02/24 18:05	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	-	03/01/24 14:27	03/02/24 18:05	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	97		70 - 130			03/01/24 14:27	03/02/24 18:05	1	
o-Terphenyl	104		70 - 130			03/01/24 14:27	03/02/24 18:05	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	74.0		5.01	mg/Kg	-		03/03/24 21:56	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS14
Date Collected: 02/26/24 12:25
Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00202	U	0.00202	mg/Kg		03/01/24 08:24	03/01/24 20:08	1	
Toluene	<0.00202	U	0.00202	mg/Kg		03/01/24 08:24	03/01/24 20:08	1	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/01/24 08:24	03/01/24 20:08	1	
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/01/24 08:24	03/01/24 20:08	1	
o-Xylene	<0.00202	U *1	0.00202	mg/Kg		03/01/24 08:24	03/01/24 20:08	1	
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/01/24 08:24	03/01/24 20:08	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	120		70 - 130			03/01/24 08:24	03/01/24 20:08	1	
1,4-Difluorobenzene (Surr)	108		70 - 130			03/01/24 08:24	03/01/24 20:08	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			03/01/24 20:08	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			03/02/24 18:26	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/01/24 14:27	03/02/24 18:26	1	
Diesel Range Organics (Over C10-C28)	<49.8	U *+	49.8	mg/Kg		03/01/24 14:27	03/02/24 18:26	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/01/24 14:27	03/02/24 18:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	88		70 - 130			03/01/24 14:27	03/02/24 18:26	1	
o-Terphenyl	95		70 - 130			03/01/24 14:27	03/02/24 18:26	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	45.9		5.02	mg/Kg			03/03/24 22:06	1	

Client Sample ID: FS15
Date Collected: 02/26/24 13:30
Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg		03/01/24 08:24	03/01/24 20:28	1	
Toluene	<0.00201	U	0.00201	mg/Kg		03/01/24 08:24	03/01/24 20:28	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/01/24 08:24	03/01/24 20:28	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/01/24 08:24	03/01/24 20:28	1	
o-Xylene	<0.00201	U *1	0.00201	mg/Kg		03/01/24 08:24	03/01/24 20:28	1	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/01/24 08:24	03/01/24 20:28	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	118		70 - 130			03/01/24 08:24	03/01/24 20:28	1	
1,4-Difluorobenzene (Surr)	105		70 - 130			03/01/24 08:24	03/01/24 20:28	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS15

Lab Sample ID: 890-6267-18

Date Collected: 02/26/24 13:30

Matrix: Solid

Date Received: 02/27/24 15:39

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			03/01/24 20:28	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			03/02/24 18:48	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/01/24 14:27	03/02/24 18:48	1	
Diesel Range Organics (Over C10-C28)	<49.8	U *	49.8	mg/Kg		03/01/24 14:27	03/02/24 18:48	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/01/24 14:27	03/02/24 18:48	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	105		70 - 130			03/01/24 14:27	03/02/24 18:48	1	
o-Terphenyl	112		70 - 130			03/01/24 14:27	03/02/24 18:48	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	96.9		4.99	mg/Kg			03/03/24 22:16	1	

Client Sample ID: FS16

Lab Sample ID: 890-6267-19

Date Collected: 02/26/24 12:55

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 20:49	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 20:49	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 20:49	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/01/24 08:24	03/01/24 20:49	1	
o-Xylene	<0.00200	U *1	0.00200	mg/Kg		03/01/24 08:24	03/01/24 20:49	1	
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/01/24 08:24	03/01/24 20:49	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	116		70 - 130			03/01/24 08:24	03/01/24 20:49	1	
1,4-Difluorobenzene (Surr)	100		70 - 130			03/01/24 08:24	03/01/24 20:49	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			03/01/24 20:49	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.1	U	50.1	mg/Kg			03/02/24 19:09	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	<50.1	U	50.1	mg/Kg		03/01/24 14:27	03/02/24 19:09	1	
Diesel Range Organics (Over C10-C28)	<50.1	U **	50.1	mg/Kg		03/01/24 14:27	03/02/24 19:09	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS16

Lab Sample ID: 890-6267-19

Date Collected: 02/26/24 12:55

Matrix: Solid

Date Received: 02/27/24 15:39

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		03/01/24 14:27	03/02/24 19:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130			03/01/24 14:27	03/02/24 19:09	1
o-Terphenyl	115		70 - 130			03/01/24 14:27	03/02/24 19:09	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	259		5.03	mg/Kg			03/03/24 22:26	1

Client Sample ID: FS17

Lab Sample ID: 890-6267-20

Date Collected: 02/26/24 14:00

Matrix: Solid

Date Received: 02/27/24 15:39

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		03/01/24 08:24	03/01/24 21:10	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/24 08:24	03/01/24 21:10	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/24 08:24	03/01/24 21:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/24 08:24	03/01/24 21:10	1
o-Xylene	<0.00199	U *	0.00199	mg/Kg		03/01/24 08:24	03/01/24 21:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/24 08:24	03/01/24 21:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			03/01/24 08:24	03/01/24 21:10	1
1,4-Difluorobenzene (Surr)	106		70 - 130			03/01/24 08:24	03/01/24 21:10	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			03/01/24 21:10	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			03/02/24 19:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		03/01/24 14:27	03/02/24 19:31	1
Diesel Range Organics (Over C10-C28)	<50.1	U *	50.1	mg/Kg		03/01/24 14:27	03/02/24 19:31	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		03/01/24 14:27	03/02/24 19:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			03/01/24 14:27	03/02/24 19:31	1
o-Terphenyl	103		70 - 130			03/01/24 14:27	03/02/24 19:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.1		5.05	mg/Kg			03/03/24 22:36	1

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Surrogate Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

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)				
890-6267-1	FS01	98	108				
890-6267-1 MS	FS01	115	103				
890-6267-1 MSD	FS01	115	101				
890-6267-2	FS02	102	110				
890-6267-3	FS03	101	107				
890-6267-4	FS04	116	118				
890-6267-5	FS05	114	105				
890-6267-6	SW01	123	110				
890-6267-7	SW02	105	105				
890-6267-8	FS06	113	110				
890-6267-9	FS07	115	109				
890-6267-10	FS08	113	107				
890-6267-11	FS09	89	103				
890-6267-12	FS10	103	108				
890-6267-13	FS11	87	119				
890-6267-14	FS12	111	114				
890-6267-15	SW03	111	103				
890-6267-16	SW04	114	113				
890-6267-17	FS14	120	108				
890-6267-18	FS15	118	105				
890-6267-19	FS16	116	100				
890-6267-20	FS17	123	106				
LCS 880-74450/1-A	Lab Control Sample	72	115				
LCSD 880-74450/2-A	Lab Control Sample Dup	110	97				
MB 880-74450/5-A	Method Blank	128	135 S1+				
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)				
890-6267-1	FS01	115	124				
890-6267-1 MS	FS01	122	121				
890-6267-1 MSD	FS01	119	118				
890-6267-2	FS02	114	126				
890-6267-3	FS03	113	121				
890-6267-4	FS04	107	116				
890-6267-5	FS05	90	100				
890-6267-6	SW01	104	112				
890-6267-7	SW02	98	106				
890-6267-8	FS06	109	114				
890-6267-9	FS07	107	117				
890-6267-10	FS08	96	104				
890-6267-11	FS09	91	97				
890-6267-12	FS10	99	106				

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Surrogate Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6267-13	FS11	92	98
890-6267-14	FS12	99	106
890-6267-15	SW03	88	96
890-6267-16	SW04	97	104
890-6267-17	FS14	88	95
890-6267-18	FS15	105	112
890-6267-19	FS16	106	115
890-6267-20	FS17	93	103
LCS 880-74498/2-A	Lab Control Sample	115	117
LCSD 880-74498/3-A	Lab Control Sample Dup	109	113
MB 880-74498/1-A	Method Blank	129	141 S1+
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74450/5-A						Client Sample ID: Method Blank			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 74455						Prep Batch: 74450			
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 12:15	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 12:15	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 12:15	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/24 08:24	03/01/24 12:15	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/24 08:24	03/01/24 12:15	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/24 08:24	03/01/24 12:15	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	128		70 - 130			03/01/24 08:24	03/01/24 12:15	1	
1,4-Difluorobenzene (Surr)	135	S1+	70 - 130			03/01/24 08:24	03/01/24 12:15	1	

Lab Sample ID: LCS 880-74450/1-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 74455						Prep Batch: 74450			
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene			0.100	0.09967		mg/Kg		100	70 - 130
Toluene			0.100	0.1037		mg/Kg		104	70 - 130
Ethylbenzene			0.100	0.09471		mg/Kg		95	70 - 130
m-Xylene & p-Xylene			0.200	0.2048		mg/Kg		102	70 - 130
o-Xylene			0.100	0.07698		mg/Kg		77	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	72		70 - 130						
1,4-Difluorobenzene (Surr)	115		70 - 130						

Lab Sample ID: LCSD 880-74450/2-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 74455						Prep Batch: 74450				
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit
Benzene			0.100	0.1125		mg/Kg		113	70 - 130	12 35
Toluene			0.100	0.1063		mg/Kg		106	70 - 130	2 35
Ethylbenzene			0.100	0.1182		mg/Kg		118	70 - 130	22 35
m-Xylene & p-Xylene			0.200	0.2350		mg/Kg		117	70 - 130	14 35
o-Xylene			0.100	0.1114	*1	mg/Kg		111	70 - 130	37 35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	110		70 - 130							
1,4-Difluorobenzene (Surr)	97		70 - 130							

Lab Sample ID: 890-6267-1 MS						Client Sample ID: FS01			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 74455						Prep Batch: 74450			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.101	0.1055		mg/Kg		105	70 - 130
Toluene	<0.00199	U	0.101	0.09713		mg/Kg		96	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

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

Lab Sample ID: 890-6267-1 MS
Matrix: Solid
Analysis Batch: 74455

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 74450

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.101	0.1163		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2254		mg/Kg		112	70 - 130
o-Xylene	<0.00199	U *1	0.101	0.1078		mg/Kg		107	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	115		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: 890-6267-1 MSD
Matrix: Solid
Analysis Batch: 74455

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 74450

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1010		mg/Kg		101	70 - 130	4	35
Toluene	<0.00199	U	0.100	0.09634		mg/Kg		96	70 - 130	1	35
Ethylbenzene	<0.00199	U	0.100	0.1088		mg/Kg		108	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2326		mg/Kg		116	70 - 130	3	35
o-Xylene	<0.00199	U *1	0.100	0.1084		mg/Kg		108	70 - 130	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	115		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

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

Lab Sample ID: MB 880-74498/1-A
Matrix: Solid
Analysis Batch: 74513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74498

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		03/01/24 14:27	03/02/24 08:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/01/24 14:27	03/02/24 08:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/01/24 14:27	03/02/24 08:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	129		70 - 130	03/01/24 14:27	03/02/24 08:42	1		
o-Terphenyl	141	S1+	70 - 130	03/01/24 14:27	03/02/24 08:42	1		

Lab Sample ID: LCS 880-74498/2-A
Matrix: Solid
Analysis Batch: 74513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1190		mg/Kg		119	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1356	*+	mg/Kg		136	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

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

Lab Sample ID: LCS 880-74498/2-A
Matrix: Solid
Analysis Batch: 74513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74498

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: LCSD 880-74498/3-A
Matrix: Solid
Analysis Batch: 74513

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74498

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1173		mg/Kg		117	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	1290		mg/Kg		129	70 - 130	5	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-6267-1 MS
Matrix: Solid
Analysis Batch: 74513

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 74498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	1010	1014		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<50.4	U **	1010	1034		mg/Kg		99	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	121		70 - 130

Lab Sample ID: 890-6267-1 MSD
Matrix: Solid
Analysis Batch: 74513

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 74498

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	<50.4	U	1010	993.8		mg/Kg		94	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.4	U **	1010	1010		mg/Kg		97	70 - 130	2	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	118		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74221/1-A Matrix: Solid Analysis Batch: 74486										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			03/03/24 17:39	1				

Lab Sample ID: LCS 880-74221/2-A Matrix: Solid Analysis Batch: 74486										Client Sample ID: Lab Control Sample Prep Type: Soluble		
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride			250	252.4		mg/Kg		101	90 - 110			

Lab Sample ID: LCSD 880-74221/3-A Matrix: Solid Analysis Batch: 74486										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	248.5		mg/Kg		99	90 - 110	2	20	

Lab Sample ID: 890-6267-1 MS Matrix: Solid Analysis Batch: 74486										Client Sample ID: FS01 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	62.9	F1	252	288.0	F1	mg/Kg		89	90 - 110			

Lab Sample ID: 890-6267-1 MSD Matrix: Solid Analysis Batch: 74486										Client Sample ID: FS01 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	62.9	F1	252	292.8		mg/Kg		91	90 - 110	2	20	

Lab Sample ID: 890-6267-11 MS Matrix: Solid Analysis Batch: 74486										Client Sample ID: FS09 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	84.4		252	349.3		mg/Kg		105	90 - 110			

Lab Sample ID: 890-6267-11 MSD Matrix: Solid Analysis Batch: 74486										Client Sample ID: FS09 Prep Type: Soluble		
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit	
Chloride	84.4		252	348.8		mg/Kg		105	90 - 110	0	20	

QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

GC VOA

Prep Batch: 74450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-1	FS01	Total/NA	Solid	5035	
890-6267-2	FS02	Total/NA	Solid	5035	
890-6267-3	FS03	Total/NA	Solid	5035	
890-6267-4	FS04	Total/NA	Solid	5035	
890-6267-5	FS05	Total/NA	Solid	5035	
890-6267-6	SW01	Total/NA	Solid	5035	
890-6267-7	SW02	Total/NA	Solid	5035	
890-6267-8	FS06	Total/NA	Solid	5035	
890-6267-9	FS07	Total/NA	Solid	5035	
890-6267-10	FS08	Total/NA	Solid	5035	
890-6267-11	FS09	Total/NA	Solid	5035	
890-6267-12	FS10	Total/NA	Solid	5035	
890-6267-13	FS11	Total/NA	Solid	5035	
890-6267-14	FS12	Total/NA	Solid	5035	
890-6267-15	SW03	Total/NA	Solid	5035	
890-6267-16	SW04	Total/NA	Solid	5035	
890-6267-17	FS14	Total/NA	Solid	5035	
890-6267-18	FS15	Total/NA	Solid	5035	
890-6267-19	FS16	Total/NA	Solid	5035	
890-6267-20	FS17	Total/NA	Solid	5035	
MB 880-74450/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74450/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74450/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6267-1 MS	FS01	Total/NA	Solid	5035	
890-6267-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 74455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-1	FS01	Total/NA	Solid	8021B	74450
890-6267-2	FS02	Total/NA	Solid	8021B	74450
890-6267-3	FS03	Total/NA	Solid	8021B	74450
890-6267-4	FS04	Total/NA	Solid	8021B	74450
890-6267-5	FS05	Total/NA	Solid	8021B	74450
890-6267-6	SW01	Total/NA	Solid	8021B	74450
890-6267-7	SW02	Total/NA	Solid	8021B	74450
890-6267-8	FS06	Total/NA	Solid	8021B	74450
890-6267-9	FS07	Total/NA	Solid	8021B	74450
890-6267-10	FS08	Total/NA	Solid	8021B	74450
890-6267-11	FS09	Total/NA	Solid	8021B	74450
890-6267-12	FS10	Total/NA	Solid	8021B	74450
890-6267-13	FS11	Total/NA	Solid	8021B	74450
890-6267-14	FS12	Total/NA	Solid	8021B	74450
890-6267-15	SW03	Total/NA	Solid	8021B	74450
890-6267-16	SW04	Total/NA	Solid	8021B	74450
890-6267-17	FS14	Total/NA	Solid	8021B	74450
890-6267-18	FS15	Total/NA	Solid	8021B	74450
890-6267-19	FS16	Total/NA	Solid	8021B	74450
890-6267-20	FS17	Total/NA	Solid	8021B	74450
MB 880-74450/5-A	Method Blank	Total/NA	Solid	8021B	74450
LCS 880-74450/1-A	Lab Control Sample	Total/NA	Solid	8021B	74450
LCSD 880-74450/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74450

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

GC VOA (Continued)

Analysis Batch: 74455 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-1 MS	FS01	Total/NA	Solid	8021B	74450
890-6267-1 MSD	FS01	Total/NA	Solid	8021B	74450

Analysis Batch: 74735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-1	FS01	Total/NA	Solid	Total BTEX	
890-6267-2	FS02	Total/NA	Solid	Total BTEX	
890-6267-3	FS03	Total/NA	Solid	Total BTEX	
890-6267-4	FS04	Total/NA	Solid	Total BTEX	
890-6267-5	FS05	Total/NA	Solid	Total BTEX	
890-6267-6	SW01	Total/NA	Solid	Total BTEX	
890-6267-7	SW02	Total/NA	Solid	Total BTEX	
890-6267-8	FS06	Total/NA	Solid	Total BTEX	
890-6267-9	FS07	Total/NA	Solid	Total BTEX	
890-6267-10	FS08	Total/NA	Solid	Total BTEX	
890-6267-11	FS09	Total/NA	Solid	Total BTEX	
890-6267-12	FS10	Total/NA	Solid	Total BTEX	
890-6267-13	FS11	Total/NA	Solid	Total BTEX	
890-6267-14	FS12	Total/NA	Solid	Total BTEX	
890-6267-15	SW03	Total/NA	Solid	Total BTEX	
890-6267-16	SW04	Total/NA	Solid	Total BTEX	
890-6267-17	FS14	Total/NA	Solid	Total BTEX	
890-6267-18	FS15	Total/NA	Solid	Total BTEX	
890-6267-19	FS16	Total/NA	Solid	Total BTEX	
890-6267-20	FS17	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 74498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-1	FS01	Total/NA	Solid	8015NM Prep	
890-6267-2	FS02	Total/NA	Solid	8015NM Prep	
890-6267-3	FS03	Total/NA	Solid	8015NM Prep	
890-6267-4	FS04	Total/NA	Solid	8015NM Prep	
890-6267-5	FS05	Total/NA	Solid	8015NM Prep	
890-6267-6	SW01	Total/NA	Solid	8015NM Prep	
890-6267-7	SW02	Total/NA	Solid	8015NM Prep	
890-6267-8	FS06	Total/NA	Solid	8015NM Prep	
890-6267-9	FS07	Total/NA	Solid	8015NM Prep	
890-6267-10	FS08	Total/NA	Solid	8015NM Prep	
890-6267-11	FS09	Total/NA	Solid	8015NM Prep	
890-6267-12	FS10	Total/NA	Solid	8015NM Prep	
890-6267-13	FS11	Total/NA	Solid	8015NM Prep	
890-6267-14	FS12	Total/NA	Solid	8015NM Prep	
890-6267-15	SW03	Total/NA	Solid	8015NM Prep	
890-6267-16	SW04	Total/NA	Solid	8015NM Prep	
890-6267-17	FS14	Total/NA	Solid	8015NM Prep	
890-6267-18	FS15	Total/NA	Solid	8015NM Prep	
890-6267-19	FS16	Total/NA	Solid	8015NM Prep	
890-6267-20	FS17	Total/NA	Solid	8015NM Prep	
MB 880-74498/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

GC Semi VOA (Continued)

Prep Batch: 74498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-74498/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74498/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6267-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-6267-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-1	FS01	Total/NA	Solid	8015B NM	74498
890-6267-2	FS02	Total/NA	Solid	8015B NM	74498
890-6267-3	FS03	Total/NA	Solid	8015B NM	74498
890-6267-4	FS04	Total/NA	Solid	8015B NM	74498
890-6267-5	FS05	Total/NA	Solid	8015B NM	74498
890-6267-6	SW01	Total/NA	Solid	8015B NM	74498
890-6267-7	SW02	Total/NA	Solid	8015B NM	74498
890-6267-8	FS06	Total/NA	Solid	8015B NM	74498
890-6267-9	FS07	Total/NA	Solid	8015B NM	74498
890-6267-10	FS08	Total/NA	Solid	8015B NM	74498
890-6267-11	FS09	Total/NA	Solid	8015B NM	74498
890-6267-12	FS10	Total/NA	Solid	8015B NM	74498
890-6267-13	FS11	Total/NA	Solid	8015B NM	74498
890-6267-14	FS12	Total/NA	Solid	8015B NM	74498
890-6267-15	SW03	Total/NA	Solid	8015B NM	74498
890-6267-16	SW04	Total/NA	Solid	8015B NM	74498
890-6267-17	FS14	Total/NA	Solid	8015B NM	74498
890-6267-18	FS15	Total/NA	Solid	8015B NM	74498
890-6267-19	FS16	Total/NA	Solid	8015B NM	74498
890-6267-20	FS17	Total/NA	Solid	8015B NM	74498
MB 880-74498/1-A	Method Blank	Total/NA	Solid	8015B NM	74498
LCS 880-74498/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74498
LCSD 880-74498/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74498
890-6267-1 MS	FS01	Total/NA	Solid	8015B NM	74498
890-6267-1 MSD	FS01	Total/NA	Solid	8015B NM	74498

Analysis Batch: 74692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-1	FS01	Total/NA	Solid	8015 NM	
890-6267-2	FS02	Total/NA	Solid	8015 NM	
890-6267-3	FS03	Total/NA	Solid	8015 NM	
890-6267-4	FS04	Total/NA	Solid	8015 NM	
890-6267-5	FS05	Total/NA	Solid	8015 NM	
890-6267-6	SW01	Total/NA	Solid	8015 NM	
890-6267-7	SW02	Total/NA	Solid	8015 NM	
890-6267-8	FS06	Total/NA	Solid	8015 NM	
890-6267-9	FS07	Total/NA	Solid	8015 NM	
890-6267-10	FS08	Total/NA	Solid	8015 NM	
890-6267-11	FS09	Total/NA	Solid	8015 NM	
890-6267-12	FS10	Total/NA	Solid	8015 NM	
890-6267-13	FS11	Total/NA	Solid	8015 NM	
890-6267-14	FS12	Total/NA	Solid	8015 NM	
890-6267-15	SW03	Total/NA	Solid	8015 NM	
890-6267-16	SW04	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

GC Semi VOA (Continued)

Analysis Batch: 74692 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-17	FS14	Total/NA	Solid	8015 NM	
890-6267-18	FS15	Total/NA	Solid	8015 NM	
890-6267-19	FS16	Total/NA	Solid	8015 NM	
890-6267-20	FS17	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 74221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-1	FS01	Soluble	Solid	DI Leach	
890-6267-2	FS02	Soluble	Solid	DI Leach	
890-6267-3	FS03	Soluble	Solid	DI Leach	
890-6267-4	FS04	Soluble	Solid	DI Leach	
890-6267-5	FS05	Soluble	Solid	DI Leach	
890-6267-6	SW01	Soluble	Solid	DI Leach	
890-6267-7	SW02	Soluble	Solid	DI Leach	
890-6267-8	FS06	Soluble	Solid	DI Leach	
890-6267-9	FS07	Soluble	Solid	DI Leach	
890-6267-10	FS08	Soluble	Solid	DI Leach	
890-6267-11	FS09	Soluble	Solid	DI Leach	
890-6267-12	FS10	Soluble	Solid	DI Leach	
890-6267-13	FS11	Soluble	Solid	DI Leach	
890-6267-14	FS12	Soluble	Solid	DI Leach	
890-6267-15	SW03	Soluble	Solid	DI Leach	
890-6267-16	SW04	Soluble	Solid	DI Leach	
890-6267-17	FS14	Soluble	Solid	DI Leach	
890-6267-18	FS15	Soluble	Solid	DI Leach	
890-6267-19	FS16	Soluble	Solid	DI Leach	
890-6267-20	FS17	Soluble	Solid	DI Leach	
MB 880-74221/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74221/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74221/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6267-1 MS	FS01	Soluble	Solid	DI Leach	
890-6267-1 MSD	FS01	Soluble	Solid	DI Leach	
890-6267-11 MS	FS09	Soluble	Solid	DI Leach	
890-6267-11 MSD	FS09	Soluble	Solid	DI Leach	

Analysis Batch: 74486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-1	FS01	Soluble	Solid	300.0	74221
890-6267-2	FS02	Soluble	Solid	300.0	74221
890-6267-3	FS03	Soluble	Solid	300.0	74221
890-6267-4	FS04	Soluble	Solid	300.0	74221
890-6267-5	FS05	Soluble	Solid	300.0	74221
890-6267-6	SW01	Soluble	Solid	300.0	74221
890-6267-7	SW02	Soluble	Solid	300.0	74221
890-6267-8	FS06	Soluble	Solid	300.0	74221
890-6267-9	FS07	Soluble	Solid	300.0	74221
890-6267-10	FS08	Soluble	Solid	300.0	74221
890-6267-11	FS09	Soluble	Solid	300.0	74221
890-6267-12	FS10	Soluble	Solid	300.0	74221

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

HPLC/IC (Continued)

Analysis Batch: 74486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6267-13	FS11	Soluble	Solid	300.0	74221
890-6267-14	FS12	Soluble	Solid	300.0	74221
890-6267-15	SW03	Soluble	Solid	300.0	74221
890-6267-16	SW04	Soluble	Solid	300.0	74221
890-6267-17	FS14	Soluble	Solid	300.0	74221
890-6267-18	FS15	Soluble	Solid	300.0	74221
890-6267-19	FS16	Soluble	Solid	300.0	74221
890-6267-20	FS17	Soluble	Solid	300.0	74221
MB 880-74221/1-A	Method Blank	Soluble	Solid	300.0	74221
LCS 880-74221/2-A	Lab Control Sample	Soluble	Solid	300.0	74221
LCSD 880-74221/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74221
890-6267-1 MS	FS01	Soluble	Solid	300.0	74221
890-6267-1 MSD	FS01	Soluble	Solid	300.0	74221
890-6267-11 MS	FS09	Soluble	Solid	300.0	74221
890-6267-11 MSD	FS09	Soluble	Solid	300.0	74221

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS01

Date Collected: 02/26/24 10:25

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-1

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			5.02 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 12:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 12:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 11:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 11:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 18:08	CH	EET MID

Client Sample ID: FS02

Date Collected: 02/26/24 10:30

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-2

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			4.96 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 13:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 13:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 12:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 12:34	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 18:38	CH	EET MID

Client Sample ID: FS03

Date Collected: 02/26/24 10:35

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 13:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 13:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 12:56	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 12:56	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 18:48	CH	EET MID

Client Sample ID: FS04

Date Collected: 02/26/24 11:10

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-4

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	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 13:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 13:45	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS04

Date Collected: 02/26/24 11:10

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-4

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			74692	03/02/24 13:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.055 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 13:18	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 18:58	CH	EET MID

Client Sample ID: FS05

Date Collected: 02/26/24 11:15

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-5

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	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 14:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 14:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 13:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 13:40	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 19:08	CH	EET MID

Client Sample ID: SW01

Date Collected: 02/26/24 11:20

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-6

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			5.04 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 14:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 14:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 14:02	SM	EET MID
Soluble	Leach	DI Leach			5.4 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 19:37	CH	EET MID

Client Sample ID: SW02

Date Collected: 02/26/24 11:25

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 14:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 14:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 14:25	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 14:25	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: SW02
Date Collected: 02/26/24 11:25
Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-7
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			5.02 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 19:47	CH	EET MID

Client Sample ID: FS06
Date Collected: 02/26/24 13:05
Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-8
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	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 15:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 15:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 14:47	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 14:47	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 19:57	CH	EET MID

Client Sample ID: FS07
Date Collected: 02/26/24 13:15
Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 15:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 15:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 15:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 15:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 20:07	CH	EET MID

Client Sample ID: FS08
Date Collected: 02/26/24 13:25
Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 15:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 15:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 15:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 15:31	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 20:17	CH	EET MID

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS09

Lab Sample ID: 890-6267-11

Date Collected: 02/26/24 09:30

Matrix: Solid

Date Received: 02/27/24 15:39

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	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 18:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 18:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 16:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 16:15	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 20:27	CH	EET MID

Client Sample ID: FS10

Lab Sample ID: 890-6267-12

Date Collected: 02/26/24 09:35

Matrix: Solid

Date Received: 02/27/24 15:39

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	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 18:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 18:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 16:37	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 16:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 20:57	CH	EET MID

Client Sample ID: FS11

Lab Sample ID: 890-6267-13

Date Collected: 02/26/24 12:10

Matrix: Solid

Date Received: 02/27/24 15:39

Prep 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	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 18:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 18:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 16:59	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 16:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 21:07	CH	EET MID

Client Sample ID: FS12

Lab Sample ID: 890-6267-14

Date Collected: 02/26/24 09:45

Matrix: Solid

Date Received: 02/27/24 15:39

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 19:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 19:06	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS12

Lab Sample ID: 890-6267-14

Date Collected: 02/26/24 09:45

Matrix: Solid

Date Received: 02/27/24 15:39

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			74692	03/02/24 17:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 17:21	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 21:36	CH	EET MID

Client Sample ID: SW03

Lab Sample ID: 890-6267-15

Date Collected: 02/26/24 09:50

Matrix: Solid

Date Received: 02/27/24 15:39

Prep 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	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 19:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 19:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 17:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 17:44	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 21:46	CH	EET MID

Client Sample ID: SW04

Lab Sample ID: 890-6267-16

Date Collected: 02/26/24 09:55

Matrix: Solid

Date Received: 02/27/24 15:39

Prep 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	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 19:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 19:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 18:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 18:05	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 21:56	CH	EET MID

Client Sample ID: FS14

Lab Sample ID: 890-6267-17

Date Collected: 02/26/24 12:25

Matrix: Solid

Date Received: 02/27/24 15:39

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	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 20:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 20:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 18:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 18:26	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Client Sample ID: FS14

Date Collected: 02/26/24 12:25

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 22:06	CH	EET MID

Client Sample ID: FS15

Date Collected: 02/26/24 13:30

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 20:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 20:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 18:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 18:48	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 22:16	CH	EET MID

Client Sample ID: FS16

Date Collected: 02/26/24 12:55

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 20:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 20:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 19:09	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 19:09	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 22:26	CH	EET MID

Client Sample ID: FS17

Date Collected: 02/26/24 14:00

Date Received: 02/27/24 15:39

Lab Sample ID: 890-6267-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74450	03/01/24 08:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74455	03/01/24 21:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74735	03/01/24 21:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			74692	03/02/24 19:31	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74498	03/01/24 14:27	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74513	03/02/24 19:31	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74221	02/29/24 11:00	SMC	EET MID
Soluble	Analysis	300.0		1			74486	03/03/24 22:36	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

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: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

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: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

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: PLU C-1 Recycle Facility

Job ID: 890-6267-1
SDG: 03C1558251

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-6267-1	FS01	Solid	02/26/24 10:25	02/27/24 15:39
890-6267-2	FS02	Solid	02/26/24 10:30	02/27/24 15:39
890-6267-3	FS03	Solid	02/26/24 10:35	02/27/24 15:39
890-6267-4	FS04	Solid	02/26/24 11:10	02/27/24 15:39
890-6267-5	FS05	Solid	02/26/24 11:15	02/27/24 15:39
890-6267-6	SW01	Solid	02/26/24 11:20	02/27/24 15:39
890-6267-7	SW02	Solid	02/26/24 11:25	02/27/24 15:39
890-6267-8	FS06	Solid	02/26/24 13:05	02/27/24 15:39
890-6267-9	FS07	Solid	02/26/24 13:15	02/27/24 15:39
890-6267-10	FS08	Solid	02/26/24 13:25	02/27/24 15:39
890-6267-11	FS09	Solid	02/26/24 09:30	02/27/24 15:39
890-6267-12	FS10	Solid	02/26/24 09:35	02/27/24 15:39
890-6267-13	FS11	Solid	02/26/24 12:10	02/27/24 15:39
890-6267-14	FS12	Solid	02/26/24 09:45	02/27/24 15:39
890-6267-15	SW03	Solid	02/26/24 09:50	02/27/24 15:39
890-6267-16	SW04	Solid	02/26/24 09:55	02/27/24 15:39
890-6267-17	FS14	Solid	02/26/24 12:25	02/27/24 15:39
890-6267-18	FS15	Solid	02/26/24 13:30	02/27/24 15:39
890-6267-19	FS16	Solid	02/26/24 12:55	02/27/24 15:39
890-6267-20	FS17	Solid	02/26/24 14:00	02/27/24 15:39



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5060

Environment Testing

Work Order No: _____

Page 1 of 2

Project Manager:	Ben Belli	Bill to: (if different)	Amy Ruth
Company Name:	Ensolum, LLC	Company Name:	XTO Energy
Address:	3122 National Parks Hwy	Address:	3104 E. Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(989) 854-0852	Email:	Amy.Ruth@ExxonMobil.com

Project Name:	PLU C-1 Recycle Facility	Turn Around	
Project Number:	03G1558251	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location:	32.21350, -103.8004	Due Date:	5 days
Sampler's Name:	Mariah O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PG#:			

SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TW/6007		
Cooler Custody Seals:	Yes No	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No	Temperature Reading:	22		
Total Containers:		Corrected Temperature:	20		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont
FS01	S	2/20/24	10:25	1'	C	1
FS02			10:30	1'		
FS03			10:35	2'		
FS04			11:10	2'		
FS05			11:15	2'		
SW01			11:20	0-2'		
SW02			11:25	0-2'		
FS06			13:05	2'		
FS07			13:15	2'		
FS08			13:25	2'		

ANALYSIS REQUEST		Pres. Code	
Parameters			
Chlorides			
TPH			
BTEX			
890-6267 Chain of Custody			
Sample Comments			
Incident #:			
NAPP2310 047404			
Cost center:			
2219821001			
2219871001			
2219781001			
2219791001			
Ben Belli:			
bbeilli@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 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	Date/Time
<i>Ben Belli</i>	<i>amy ruth</i>	17 Jy 2027	
		4	
		6	



eurofins

Environment Testing

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199
Little Rock, AR (501) 224-5060

Work Order No: _____

Page 2 of 2

Project Manager:	Ben Bell	Bill to: (if different)	Amy Ruth
Company Name:	Ensolum LLC	Company Name:	XIO Energy
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	(989) 854-0852	Email:	Amy.Ruth@ExxonMobil.com

Project Name:	PLU C-1 Recycle Facility	Turn Around	
Project Number:	0301558251	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location:	32-21350-103.8004	Due Date:	5 days
Sampler's Name:	Mariaha O'Dell	TAT starts the day received by the lab, if received by 4:30pm	
PQ #:			

SAMPLE RECEIPT				Parameters			
Temp Blank:		Yes	No	Wet Ice:		Yes	No
Samples Received Intact:		Yes	No	Thermometer ID:			
Cooler Custody Seals:		Yes	No	Correction Factor:			
Sample Custody Seals:		Yes	No	Temperature Reading:			
Total Containers:				Corrected Temperature:			
Sample Identification				Date Sampled	Time Sampled	Depth	Grab/Comp
FS09	S	2/27/24	9:30	2'	C	1	
FS10			9:35	2'			
FS11			12:10	2'			
FS12			9:45	2'			
SW03			9:50	0.2'			
SW04			9:55	0.2'			
FS14			12:25	0.5'			
FS15			12:30	0.5'			
FS16			12:55	0.5'			
FS17			14:00	0.5'			

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr 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
		17:39 2/28			

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6267-1

SDG Number: 03C1558251

Login Number: 6267

List Source: Eurofins Carlsbad

List Number: 1

Creator: Lopez, Abraham

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: 890-6267-1
SDG Number: 03C1558251

Login Number: 6267
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/01/24 08:03 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").	N/A	



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Ben Belill
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701
Generated 3/7/2024 6:18:25 PM

JOB DESCRIPTION

PLU C-1 Recycle Facility
03C1558251

JOB NUMBER

890-6288-1

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
3/7/2024 6:18:25 PM

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

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Laboratory Job ID: 890-6288-1
SDG: 03C1558251

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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: PLU C-1 Recycle Facility

Job ID: 890-6288-1

Job ID: 890-6288-1

Eurofins Carlsbad

Job Narrative
890-6288-1

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 2/29/2024 2:29 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 1.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH 07 (890-6288-1), BH 07A (890-6288-2), BH 07B (890-6288-3), BH 07C (890-6288-4), BH 07D (890-6288-5), BH 08 (890-6288-6), BH 08A (890-6288-7), BH 08B (890-6288-8), BH 08C (890-6288-9), BH 08D (890-6288-10), BH 10 (890-6288-11), BH 10A (890-6288-12), BH 10B (890-6288-13), BH 10C (890-6288-14), BH 10D (890-6288-15), BH 09 (890-6288-16), BH 09A (890-6288-17), BH 09B (890-6288-18), BH 09C (890-6288-19) and BH 09D (890-6288-20).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-74750 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-74750/2) and (CCV 880-74750/20).

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-74652 and analytical batch 880-74750 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74652 and analytical batch 880-74750 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: (LCS 880-74652/1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-74750 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-74750/33).

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH 07D (890-6288-5), BH 08 (890-6288-6), BH 10D (890-6288-15), BH 09 (890-6288-16), BH 09A (890-6288-17) and BH 09B (890-6288-18). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-74821 and analytical batch 880-74775 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.

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Case Narrative

Client: Ensolum
Project: PLU C-1 Recycle Facility

Job ID: 890-6288-1

Job ID: 890-6288-1 (Continued) Eurofins Carlsbad

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74607 and analytical batch 880-74745 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.

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 07
Date Collected: 02/28/24 13:10
Date Received: 02/29/24 14:29
Sample Depth: 0.5'

Lab Sample ID: 890-6288-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U F1	0.00201	mg/Kg		03/04/24 13:22	03/05/24 11:55	1	
Toluene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 11:55	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 11:55	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/04/24 13:22	03/05/24 11:55	1	
o-Xylene	<0.00201	U *+ *1	0.00201	mg/Kg		03/04/24 13:22	03/05/24 11:55	1	
Xylenes, Total	<0.00402	U *+ *1	0.00402	mg/Kg		03/04/24 13:22	03/05/24 11:55	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	105		70 - 130			03/04/24 13:22	03/05/24 11:55	1	
1,4-Difluorobenzene (Surr)	104		70 - 130			03/04/24 13:22	03/05/24 11:55	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			03/05/24 11:55	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.8	U	49.8	mg/Kg			03/05/24 22:12	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		03/05/24 14:06	03/05/24 22:12	1	
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/05/24 14:06	03/05/24 22:12	1	
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/05/24 14:06	03/05/24 22:12	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	121		70 - 130			03/05/24 14:06	03/05/24 22:12	1	
o-Terphenyl	111		70 - 130			03/05/24 14:06	03/05/24 22:12	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	53.9		5.00	mg/Kg			03/05/24 16:52	1	

Client Sample ID: BH 07A
Date Collected: 02/28/24 13:15
Date Received: 02/29/24 14:29
Sample Depth: 1'

Lab Sample ID: 890-6288-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 12:16	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 12:16	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 12:16	1	
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/04/24 13:22	03/05/24 12:16	1	
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		03/04/24 13:22	03/05/24 12:16	1	
Xylenes, Total	<0.00401	U *+ *1	0.00401	mg/Kg		03/04/24 13:22	03/05/24 12:16	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		70 - 130			03/04/24 13:22	03/05/24 12:16	1	

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 07A

Lab Sample ID: 890-6288-2

Date Collected: 02/28/24 13:15

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1,4-Difluorobenzene (Surr)	106		70 - 130			03/04/24 13:22	03/05/24 12:16	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/05/24 12:16	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			03/05/24 23:19	1	
Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.5	U *1	50.5	mg/Kg		03/05/24 14:06	03/05/24 23:19	1	
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5	mg/Kg		03/05/24 14:06	03/05/24 23:19	1	
Oil Range Organics (Over C28-C36)	<50.5	U	50.5	mg/Kg		03/05/24 14:06	03/05/24 23:19	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	120		70 - 130			03/05/24 14:06	03/05/24 23:19	1	
o-Terphenyl	108		70 - 130			03/05/24 14:06	03/05/24 23:19	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	54.8		4.98	mg/Kg			03/05/24 17:05	1	

Client Sample ID: BH 07B

Lab Sample ID: 890-6288-3

Date Collected: 02/28/24 13:20

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 2'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 12:37	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 12:37	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 12:37	1	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/04/24 13:22	03/05/24 12:37	1	
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		03/04/24 13:22	03/05/24 12:37	1	
Xylenes, Total	<0.00399	U *+ *1	0.00399	mg/Kg		03/04/24 13:22	03/05/24 12:37	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	101		70 - 130			03/04/24 13:22	03/05/24 12:37	1	
1,4-Difluorobenzene (Surr)	103		70 - 130			03/04/24 13:22	03/05/24 12:37	1	
Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/05/24 12:37	1	
Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			03/05/24 23:42	1	

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 07B

Lab Sample ID: 890-6288-3

Date Collected: 02/28/24 13:20

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/05/24 14:06	03/05/24 23:42	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/05/24 14:06	03/05/24 23:42	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/05/24 14:06	03/05/24 23:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			03/05/24 14:06	03/05/24 23:42	1
o-Terphenyl	111		70 - 130			03/05/24 14:06	03/05/24 23:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.3		5.02	mg/Kg			03/05/24 17:09	1

Client Sample ID: BH 07C

Lab Sample ID: 890-6288-4

Date Collected: 02/28/24 13:25

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 12:58	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 12:58	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 12:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/04/24 13:22	03/05/24 12:58	1
o-Xylene	<0.00198	U *+ *1	0.00198	mg/Kg		03/04/24 13:22	03/05/24 12:58	1
Xylenes, Total	<0.00396	U *+ *1	0.00396	mg/Kg		03/04/24 13:22	03/05/24 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/04/24 13:22	03/05/24 12:58	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/04/24 13:22	03/05/24 12:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/05/24 12:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/06/24 00:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/05/24 14:06	03/06/24 00:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/05/24 14:06	03/06/24 00:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/05/24 14:06	03/06/24 00:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	115		70 - 130			03/05/24 14:06	03/06/24 00:04	1
o-Terphenyl	103		70 - 130			03/05/24 14:06	03/06/24 00:04	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 07C

Lab Sample ID: 890-6288-4

Date Collected: 02/28/24 13:25

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	51.4		5.04	mg/Kg			03/05/24 17:14	1	

Client Sample ID: BH 07D

Lab Sample ID: 890-6288-5

Date Collected: 02/28/24 13:30

Matrix: Solid

Date Received: 02/29/24 14:29

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		03/04/24 13:22	03/05/24 13:18	1	
Toluene	<0.00199	U	0.00199	mg/Kg		03/04/24 13:22	03/05/24 13:18	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/04/24 13:22	03/05/24 13:18	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/04/24 13:22	03/05/24 13:18	1	
o-Xylene	<0.00199	U *+ *1	0.00199	mg/Kg		03/04/24 13:22	03/05/24 13:18	1	
Xylenes, Total	<0.00398	U *+ *1	0.00398	mg/Kg		03/04/24 13:22	03/05/24 13:18	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		70 - 130			03/04/24 13:22	03/05/24 13:18	1	
1,4-Difluorobenzene (Surr)	102		70 - 130			03/04/24 13:22	03/05/24 13:18	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/05/24 13:18	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.7	U	49.7	mg/Kg			03/06/24 00:27	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	mg/Kg		03/05/24 14:06	03/06/24 00:27	1	
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		03/05/24 14:06	03/06/24 00:27	1	
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/05/24 14:06	03/06/24 00:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	140	S1+	70 - 130			03/05/24 14:06	03/06/24 00:27	1	
o-Terphenyl	121		70 - 130			03/05/24 14:06	03/06/24 00:27	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	57.0		4.96	mg/Kg			03/05/24 17:18	1	

Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 08

Lab Sample ID: 890-6288-6

Date Collected: 02/28/24 13:35

Matrix: Solid

Date Received: 02/29/24 14:29

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		03/04/24 13:22	03/05/24 13:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 13:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 13:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/04/24 13:22	03/05/24 13:39	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		03/04/24 13:22	03/05/24 13:39	1
Xylenes, Total	<0.00399	U *+ *1	0.00399	mg/Kg		03/04/24 13:22	03/05/24 13:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/04/24 13:22	03/05/24 13:39	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/04/24 13:22	03/05/24 13:39	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			03/05/24 13:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/06/24 00:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/05/24 14:06	03/06/24 00:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/05/24 14:06	03/06/24 00:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/05/24 14:06	03/06/24 00:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	153	S1+	70 - 130			03/05/24 14:06	03/06/24 00:49	1
o-Terphenyl	135	S1+	70 - 130			03/05/24 14:06	03/06/24 00:49	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	50.9		4.97	mg/Kg			03/05/24 17:31	1

Client Sample ID: BH 08A

Lab Sample ID: 890-6288-7

Date Collected: 02/28/24 13:40

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 14:00	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 14:00	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 14:00	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		03/04/24 13:22	03/05/24 14:00	1
o-Xylene	<0.00198	U *+ *1	0.00198	mg/Kg		03/04/24 13:22	03/05/24 14:00	1
Xylenes, Total	<0.00397	U *+ *1	0.00397	mg/Kg		03/04/24 13:22	03/05/24 14:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			03/04/24 13:22	03/05/24 14:00	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 08A
Date Collected: 02/28/24 13:40
Date Received: 02/29/24 14:29
Sample Depth: 1'

Lab Sample ID: 890-6288-7
Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	03/04/24 13:22	03/05/24 14:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			03/05/24 14:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			03/06/24 01:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1	mg/Kg		03/05/24 14:06	03/06/24 01:11	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		03/05/24 14:06	03/06/24 01:11	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		03/05/24 14:06	03/06/24 01:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			03/05/24 14:06	03/06/24 01:11	1
o-Terphenyl	99		70 - 130			03/05/24 14:06	03/06/24 01:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.8		4.97	mg/Kg			03/05/24 17:36	1

Client Sample ID: BH 08B
Date Collected: 02/28/24 13:45
Date Received: 02/29/24 14:29
Sample Depth: 2'

Lab Sample ID: 890-6288-8
Matrix: Solid

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 14:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 14:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 14:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/04/24 13:22	03/05/24 14:21	1
o-Xylene	<0.00201	U *+ *1	0.00201	mg/Kg		03/04/24 13:22	03/05/24 14:21	1
Xylenes, Total	<0.00402	U *+ *1	0.00402	mg/Kg		03/04/24 13:22	03/05/24 14:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/04/24 13:22	03/05/24 14:21	1
1,4-Difluorobenzene (Surr)	101		70 - 130			03/04/24 13:22	03/05/24 14:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/05/24 14:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4	mg/Kg			03/06/24 01:34	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 08B

Lab Sample ID: 890-6288-8

Date Collected: 02/28/24 13:45

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *1	50.4	mg/Kg		03/05/24 14:06	03/06/24 01:34	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		03/05/24 14:06	03/06/24 01:34	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		03/05/24 14:06	03/06/24 01:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			03/05/24 14:06	03/06/24 01:34	1
o-Terphenyl	114		70 - 130			03/05/24 14:06	03/06/24 01:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.7		4.99	mg/Kg			03/05/24 17:40	1

Client Sample ID: BH 08C

Lab Sample ID: 890-6288-9

Date Collected: 02/28/24 13:50

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 14:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 14:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 14:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/04/24 13:22	03/05/24 14:41	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		03/04/24 13:22	03/05/24 14:41	1
Xylenes, Total	<0.00401	U *+ *1	0.00401	mg/Kg		03/04/24 13:22	03/05/24 14:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/04/24 13:22	03/05/24 14:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130			03/04/24 13:22	03/05/24 14:41	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			03/05/24 14:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			03/06/24 01:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *1	50.3	mg/Kg		03/05/24 14:06	03/06/24 01:56	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		03/05/24 14:06	03/06/24 01:56	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		03/05/24 14:06	03/06/24 01:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			03/05/24 14:06	03/06/24 01:56	1
o-Terphenyl	109		70 - 130			03/05/24 14:06	03/06/24 01:56	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 08C

Lab Sample ID: 890-6288-9

Date Collected: 02/28/24 13:50

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	53.3		5.02	mg/Kg			03/05/24 17:45	1

Client Sample ID: BH 08D

Lab Sample ID: 890-6288-10

Date Collected: 02/28/24 13:55

Matrix: Solid

Date Received: 02/29/24 14:29

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		03/04/24 13:22	03/05/24 15:02	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/04/24 13:22	03/05/24 15:02	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/04/24 13:22	03/05/24 15:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/04/24 13:22	03/05/24 15:02	1
o-Xylene	<0.00199	U *+ *1	0.00199	mg/Kg		03/04/24 13:22	03/05/24 15:02	1
Xylenes, Total	<0.00398	U *+ *1	0.00398	mg/Kg		03/04/24 13:22	03/05/24 15:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/04/24 13:22	03/05/24 15:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130			03/04/24 13:22	03/05/24 15:02	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			03/05/24 15:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			03/06/24 02:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *1	50.3	mg/Kg		03/05/24 14:06	03/06/24 02:18	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		03/05/24 14:06	03/06/24 02:18	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		03/05/24 14:06	03/06/24 02:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			03/05/24 14:06	03/06/24 02:18	1
o-Terphenyl	103		70 - 130			03/05/24 14:06	03/06/24 02:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.2		5.03	mg/Kg			03/05/24 17:49	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 10

Lab Sample ID: 890-6288-11

Date Collected: 02/28/24 14:00

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 0.5'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 16:27	1	
Toluene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 16:27	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 16:27	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/04/24 13:22	03/05/24 16:27	1	
o-Xylene	<0.00198	U *+ *1	0.00198	mg/Kg		03/04/24 13:22	03/05/24 16:27	1	
Xylenes, Total	<0.00396	U *+ *1	0.00396	mg/Kg		03/04/24 13:22	03/05/24 16:27	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	100		70 - 130			03/04/24 13:22	03/05/24 16:27	1	
1,4-Difluorobenzene (Surr)	102		70 - 130			03/04/24 13:22	03/05/24 16:27	1	

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/05/24 16:27	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.2	U	50.2	mg/Kg			03/06/24 03:03	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.2	U *1	50.2	mg/Kg		03/05/24 14:06	03/06/24 03:03	1	
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		03/05/24 14:06	03/06/24 03:03	1	
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		03/05/24 14:06	03/06/24 03:03	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	126		70 - 130			03/05/24 14:06	03/06/24 03:03	1	
o-Terphenyl	112		70 - 130			03/05/24 14:06	03/06/24 03:03	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	69.4	F1	5.00	mg/Kg			03/05/24 17:54	1	

Client Sample ID: BH 10A

Lab Sample ID: 890-6288-12

Date Collected: 02/28/24 14:05

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 1'

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 16:47	1	
Toluene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 16:47	1	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 16:47	1	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/04/24 13:22	03/05/24 16:47	1	
o-Xylene	<0.00201	U *+ *1	0.00201	mg/Kg		03/04/24 13:22	03/05/24 16:47	1	
Xylenes, Total	<0.00402	U *+ *1	0.00402	mg/Kg		03/04/24 13:22	03/05/24 16:47	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		70 - 130			03/04/24 13:22	03/05/24 16:47	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 10A

Lab Sample ID: 890-6288-12

Date Collected: 02/28/24 14:05

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	03/04/24 13:22	03/05/24 16:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/05/24 16:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/06/24 03:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/05/24 14:06	03/06/24 03:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/05/24 14:06	03/06/24 03:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/05/24 14:06	03/06/24 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			03/05/24 14:06	03/06/24 03:25	1
o-Terphenyl	107		70 - 130			03/05/24 14:06	03/06/24 03:25	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.2		5.02	mg/Kg			03/05/24 18:07	1

Client Sample ID: BH 10B

Lab Sample ID: 890-6288-13

Date Collected: 02/28/24 14:10

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/04/24 13:22	03/05/24 17:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/04/24 13:22	03/05/24 17:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/04/24 13:22	03/05/24 17:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/04/24 13:22	03/05/24 17:08	1
o-Xylene	<0.00202	U *+ *1	0.00202	mg/Kg		03/04/24 13:22	03/05/24 17:08	1
Xylenes, Total	<0.00404	U *+ *1	0.00404	mg/Kg		03/04/24 13:22	03/05/24 17:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/04/24 13:22	03/05/24 17:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130			03/04/24 13:22	03/05/24 17:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/05/24 17:08	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			03/06/24 03:47	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 10B

Lab Sample ID: 890-6288-13

Date Collected: 02/28/24 14:10

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	mg/Kg		03/05/24 14:06	03/06/24 03:47	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		03/05/24 14:06	03/06/24 03:47	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/05/24 14:06	03/06/24 03:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			03/05/24 14:06	03/06/24 03:47	1
o-Terphenyl	87		70 - 130			03/05/24 14:06	03/06/24 03:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	51.0		5.03	mg/Kg			03/05/24 18:11	1

Client Sample ID: BH 10C

Lab Sample ID: 890-6288-14

Date Collected: 02/28/24 14:15

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 17:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 17:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 17:29	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/04/24 13:22	03/05/24 17:29	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		03/04/24 13:22	03/05/24 17:29	1
Xylenes, Total	<0.00399	U *+ *1	0.00399	mg/Kg		03/04/24 13:22	03/05/24 17:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/04/24 13:22	03/05/24 17:29	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/04/24 13:22	03/05/24 17:29	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			03/05/24 17:29	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			03/06/24 04:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *1	49.7	mg/Kg		03/05/24 14:06	03/06/24 04:08	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		03/05/24 14:06	03/06/24 04:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/05/24 14:06	03/06/24 04:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			03/05/24 14:06	03/06/24 04:08	1
o-Terphenyl	105		70 - 130			03/05/24 14:06	03/06/24 04:08	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 10C

Lab Sample ID: 890-6288-14

Date Collected: 02/28/24 14:15

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	227		5.05	mg/Kg			03/05/24 18:25	1

Client Sample ID: BH 10D

Lab Sample ID: 890-6288-15

Date Collected: 02/28/24 14:20

Matrix: Solid

Date Received: 02/29/24 14:29

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		03/04/24 13:22	03/05/24 17:49	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 17:49	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 17:49	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		03/04/24 13:22	03/05/24 17:49	1
o-Xylene	<0.00198	U *+ *1	0.00198	mg/Kg		03/04/24 13:22	03/05/24 17:49	1
Xylenes, Total	<0.00397	U *+ *1	0.00397	mg/Kg		03/04/24 13:22	03/05/24 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/04/24 13:22	03/05/24 17:49	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/04/24 13:22	03/05/24 17:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			03/05/24 17:49	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			03/06/24 04:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/05/24 14:06	03/06/24 04:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/05/24 14:06	03/06/24 04:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/05/24 14:06	03/06/24 04:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	147	S1+	70 - 130			03/05/24 14:06	03/06/24 04:31	1
o-Terphenyl	132	S1+	70 - 130			03/05/24 14:06	03/06/24 04:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	194		4.99	mg/Kg			03/07/24 13:22	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 09
Date Collected: 02/28/24 14:25
Date Received: 02/29/24 14:29
Sample Depth: 0.5'

Lab Sample ID: 890-6288-16
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		03/04/24 13:22	03/05/24 18:10	1	
Toluene	<0.00199	U	0.00199	mg/Kg		03/04/24 13:22	03/05/24 18:10	1	
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/04/24 13:22	03/05/24 18:10	1	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/04/24 13:22	03/05/24 18:10	1	
o-Xylene	<0.00199	U *+ *1	0.00199	mg/Kg		03/04/24 13:22	03/05/24 18:10	1	
Xylenes, Total	<0.00398	U *+ *1	0.00398	mg/Kg		03/04/24 13:22	03/05/24 18:10	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	109		70 - 130			03/04/24 13:22	03/05/24 18:10	1	
1,4-Difluorobenzene (Surr)	105		70 - 130			03/04/24 13:22	03/05/24 18:10	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			03/05/24 18:10	1	

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<49.9	U	49.9	mg/Kg			03/06/24 04:54	1	

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		03/05/24 14:06	03/06/24 04:54	1	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/05/24 14:06	03/06/24 04:54	1	
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/05/24 14:06	03/06/24 04:54	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	147	S1+	70 - 130			03/05/24 14:06	03/06/24 04:54	1	
o-Terphenyl	131	S1+	70 - 130			03/05/24 14:06	03/06/24 04:54	1	

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	82.4		5.05	mg/Kg			03/07/24 13:45	1	

Client Sample ID: BH 09A
Date Collected: 02/28/24 14:30
Date Received: 02/29/24 14:29
Sample Depth: 1'

Lab Sample ID: 890-6288-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 18:31	1	
Toluene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 18:31	1	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/04/24 13:22	03/05/24 18:31	1	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/04/24 13:22	03/05/24 18:31	1	
o-Xylene	<0.00198	U *+ *1	0.00198	mg/Kg		03/04/24 13:22	03/05/24 18:31	1	
Xylenes, Total	<0.00396	U *+ *1	0.00396	mg/Kg		03/04/24 13:22	03/05/24 18:31	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		70 - 130			03/04/24 13:22	03/05/24 18:31	1	

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 09A

Lab Sample ID: 890-6288-17

Date Collected: 02/28/24 14:30

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 1'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	03/04/24 13:22	03/05/24 18:31	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			03/05/24 18:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			03/06/24 05:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U *1	50.1	mg/Kg		03/05/24 14:06	03/06/24 05:15	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		03/05/24 14:06	03/06/24 05:15	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		03/05/24 14:06	03/06/24 05:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			03/05/24 14:06	03/06/24 05:15	1
o-Terphenyl	121		70 - 130			03/05/24 14:06	03/06/24 05:15	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	82.2		5.03	mg/Kg			03/07/24 13:53	1

Client Sample ID: BH 09B

Lab Sample ID: 890-6288-18

Date Collected: 02/28/24 14:35

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 18:51	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 18:51	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/04/24 13:22	03/05/24 18:51	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/04/24 13:22	03/05/24 18:51	1
o-Xylene	<0.00201	U *+ *1	0.00201	mg/Kg		03/04/24 13:22	03/05/24 18:51	1
Xylenes, Total	<0.00402	U *+ *1	0.00402	mg/Kg		03/04/24 13:22	03/05/24 18:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/04/24 13:22	03/05/24 18:51	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/04/24 13:22	03/05/24 18:51	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			03/05/24 18:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			03/06/24 05:36	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 09B

Lab Sample ID: 890-6288-18

Date Collected: 02/28/24 14:35

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U *1	50.3	mg/Kg		03/05/24 14:06	03/06/24 05:36	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		03/05/24 14:06	03/06/24 05:36	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		03/05/24 14:06	03/06/24 05:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			03/05/24 14:06	03/06/24 05:36	1
o-Terphenyl	66	S1-	70 - 130			03/05/24 14:06	03/06/24 05:36	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.9		5.02	mg/Kg			03/07/24 14:01	1

Client Sample ID: BH 09C

Lab Sample ID: 890-6288-19

Date Collected: 02/28/24 14:40

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 19:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 19:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 19:12	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/04/24 13:22	03/05/24 19:12	1
o-Xylene	<0.00200	U *+ *1	0.00200	mg/Kg		03/04/24 13:22	03/05/24 19:12	1
Xylenes, Total	<0.00401	U *+ *1	0.00401	mg/Kg		03/04/24 13:22	03/05/24 19:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			03/04/24 13:22	03/05/24 19:12	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/04/24 13:22	03/05/24 19:12	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			03/05/24 19:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3	mg/Kg			03/06/24 05:57	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	<50.3	U *1	50.3	mg/Kg		03/05/24 14:06	03/06/24 05:57	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		03/05/24 14:06	03/06/24 05:57	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		03/05/24 14:06	03/06/24 05:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			03/05/24 14:06	03/06/24 05:57	1
o-Terphenyl	112		70 - 130			03/05/24 14:06	03/06/24 05:57	1

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Client Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 09C

Lab Sample ID: 890-6288-19

Date Collected: 02/28/24 14:40

Matrix: Solid

Date Received: 02/29/24 14:29

Sample Depth: 3'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	64.5		4.98	mg/Kg			03/07/24 14:09	1

Client Sample ID: BH 09D

Lab Sample ID: 890-6288-20

Date Collected: 02/28/24 14:45

Matrix: Solid

Date Received: 02/29/24 14:29

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		03/04/24 13:22	03/05/24 19:33	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/04/24 13:22	03/05/24 19:33	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/04/24 13:22	03/05/24 19:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/04/24 13:22	03/05/24 19:33	1
o-Xylene	<0.00199	U *+ *1	0.00199	mg/Kg		03/04/24 13:22	03/05/24 19:33	1
Xylenes, Total	<0.00398	U *+ *1	0.00398	mg/Kg		03/04/24 13:22	03/05/24 19:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/04/24 13:22	03/05/24 19:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/04/24 13:22	03/05/24 19:33	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/05/24 19:33	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			03/06/24 06:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U *1	50.4	mg/Kg		03/05/24 14:06	03/06/24 06:18	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4	mg/Kg		03/05/24 14:06	03/06/24 06:18	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4	mg/Kg		03/05/24 14:06	03/06/24 06:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			03/05/24 14:06	03/06/24 06:18	1
o-Terphenyl	115		70 - 130			03/05/24 14:06	03/06/24 06:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		4.97	mg/Kg			03/07/24 14:32	1

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Surrogate Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

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)				
890-6288-1	BH 07	105	104				
890-6288-1 MS	BH 07	99	101				
890-6288-1 MSD	BH 07	95	101				
890-6288-2	BH 07A	106	106				
890-6288-3	BH 07B	101	103				
890-6288-4	BH 07C	106	102				
890-6288-5	BH 07D	106	102				
890-6288-6	BH 08	105	102				
890-6288-7	BH 08A	99	99				
890-6288-8	BH 08B	105	101				
890-6288-9	BH 08C	108	100				
890-6288-10	BH 08D	107	101				
890-6288-11	BH 10	100	102				
890-6288-12	BH 10A	106	104				
890-6288-13	BH 10B	101	101				
890-6288-14	BH 10C	105	102				
890-6288-15	BH 10D	102	102				
890-6288-16	BH 09	109	105				
890-6288-17	BH 09A	106	102				
890-6288-18	BH 09B	107	103				
890-6288-19	BH 09C	98	102				
890-6288-20	BH 09D	102	103				
LCS 880-74652/1-A	Lab Control Sample	5 S1-	101				
LCSD 880-74652/2-A	Lab Control Sample Dup	96	101				
MB 880-74652/5-A	Method Blank	77	98				
Surrogate Legend							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
890-6288-1	BH 07	121	111				
890-6288-1 MS	BH 07	123	107				
890-6288-1 MSD	BH 07	125	108				
890-6288-2	BH 07A	120	108				
890-6288-3	BH 07B	125	111				
890-6288-4	BH 07C	115	103				
890-6288-5	BH 07D	140 S1+	121				
890-6288-6	BH 08	153 S1+	135 S1+				
890-6288-7	BH 08A	113	99				
890-6288-8	BH 08B	124	114				
890-6288-9	BH 08C	121	109				
890-6288-10	BH 08D	116	103				
890-6288-11	BH 10	126	112				
890-6288-12	BH 10A	118	107				

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Surrogate Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-6288-13	BH 10B	97	87
890-6288-14	BH 10C	113	105
890-6288-15	BH 10D	147 S1+	132 S1+
890-6288-16	BH 09	147 S1+	131 S1+
890-6288-17	BH 09A	132 S1+	121
890-6288-18	BH 09B	71	66 S1-
890-6288-19	BH 09C	125	112
890-6288-20	BH 09D	122	115
LCS 880-74821/2-A	Lab Control Sample	100	83
LCSD 880-74821/3-A	Lab Control Sample Dup	85	72
MB 880-74821/1-A	Method Blank	122	111
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74652/5-A					Client Sample ID: Method Blank				
Matrix: Solid					Prep Type: Total/NA				
Analysis Batch: 74750					Prep Batch: 74652				
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 11:33	1	
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 11:33	1	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 11:33	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/04/24 13:22	03/05/24 11:33	1	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/04/24 13:22	03/05/24 11:33	1	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/04/24 13:22	03/05/24 11:33	1	
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	77		70 - 130			03/04/24 13:22	03/05/24 11:33	1	
1,4-Difluorobenzene (Surr)	98		70 - 130			03/04/24 13:22	03/05/24 11:33	1	

Lab Sample ID: LCS 880-74652/1-A						Client Sample ID: Lab Control Sample			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 74750						Prep Batch: 74652			
Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzene		0.100	0.1113		mg/Kg		111	70 - 130	
Toluene		0.100	0.09107		mg/Kg		91	70 - 130	
Ethylbenzene		0.100	0.09855		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene		0.200	0.1914		mg/Kg		96	70 - 130	
o-Xylene		0.100	0.3177	*+	mg/Kg		318	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	5	S1-	70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: LCSD 880-74652/2-A						Client Sample ID: Lab Control Sample Dup				
Matrix: Solid						Prep Type: Total/NA				
Analysis Batch: 74750						Prep Batch: 74652				
Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene		0.100	0.1178		mg/Kg		118	70 - 130	6	35
Toluene		0.100	0.09655		mg/Kg		97	70 - 130	6	35
Ethylbenzene		0.100	0.1037		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene		0.200	0.2035		mg/Kg		102	70 - 130	6	35
o-Xylene		0.100	0.09910	*1	mg/Kg		99	70 - 130	105	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
4-Bromofluorobenzene (Surr)	96		70 - 130							
1,4-Difluorobenzene (Surr)	101		70 - 130							

Lab Sample ID: 890-6288-1 MS						Client Sample ID: BH 07			
Matrix: Solid						Prep Type: Total/NA			
Analysis Batch: 74750						Prep Batch: 74652			
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U F1	0.0996	0.1437	F1	mg/Kg		144	70 - 130
Toluene	<0.00201	U	0.0996	0.1173		mg/Kg		117	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

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

Lab Sample ID: 890-6288-1 MS
Matrix: Solid
Analysis Batch: 74750

Client Sample ID: BH 07
Prep Type: Total/NA
Prep Batch: 74652

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.0996	0.1200		mg/Kg		121	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.199	0.2380		mg/Kg		119	70 - 130
o-Xylene	<0.00201	U *+ *1	0.0996	0.1133		mg/Kg		114	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		70 - 130						
1,4-Difluorobenzene (Surr)	101		70 - 130						

Lab Sample ID: 890-6288-1 MSD
Matrix: Solid
Analysis Batch: 74750

Client Sample ID: BH 07
Prep Type: Total/NA
Prep Batch: 74652

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.101	0.1388	F1	mg/Kg		138	70 - 130	3	35
Toluene	<0.00201	U	0.101	0.1108		mg/Kg		109	70 - 130	6	35
Ethylbenzene	<0.00201	U	0.101	0.1123		mg/Kg		111	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U	0.202	0.2218		mg/Kg		110	70 - 130	7	35
o-Xylene	<0.00201	U *+ *1	0.101	0.1061		mg/Kg		105	70 - 130	7	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

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

Lab Sample ID: MB 880-74821/1-A
Matrix: Solid
Analysis Batch: 74775

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74821

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		03/05/24 14:06	03/05/24 21:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/05/24 14:06	03/05/24 21:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/05/24 14:06	03/05/24 21:07	1
Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac		
1-Chlorooctane	122		70 - 130	03/05/24 14:06	03/05/24 21:07	1		
o-Terphenyl	111		70 - 130	03/05/24 14:06	03/05/24 21:07	1		

Lab Sample ID: LCS 880-74821/2-A
Matrix: Solid
Analysis Batch: 74775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74821

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	883.2		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1215		mg/Kg		121	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

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

Lab Sample ID: LCS 880-74821/2-A
Matrix: Solid
Analysis Batch: 74775

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74821

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: LCSD 880-74821/3-A
Matrix: Solid
Analysis Batch: 74775

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74821

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1157	*1	mg/Kg		116	70 - 130	27	20
Diesel Range Organics (Over C10-C28)			1000	1031		mg/Kg		103	70 - 130	16	20
Surrogate	LCSD	LCSD									
	%Recovery	Qualifier									
1-Chlorooctane	85										
o-Terphenyl	72										

Lab Sample ID: 890-6288-1 MS
Matrix: Solid
Analysis Batch: 74775

Client Sample ID: BH 07
Prep Type: Total/NA
Prep Batch: 74821

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	1010	872.6		mg/Kg		83	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	1042		mg/Kg		101	70 - 130		
Surrogate	MS	MS									
	%Recovery	Qualifier									
1-Chlorooctane	123										
o-Terphenyl	107										

Lab Sample ID: 890-6288-1 MSD
Matrix: Solid
Analysis Batch: 74775

Client Sample ID: BH 07
Prep Type: Total/NA
Prep Batch: 74821

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	1010	881.8		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.8	U	1010	1058		mg/Kg		102	70 - 130	2	20
Surrogate	MSD	MSD									
	%Recovery	Qualifier									
1-Chlorooctane	125										
o-Terphenyl	108										

QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74607/1-A							Client Sample ID: Method Blank				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 74745											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<5.00	U	5.00	mg/Kg			03/05/24 16:38	1			
Lab Sample ID: LCS 880-74607/2-A							Client Sample ID: Lab Control Sample				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 74745											
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits				
Chloride	250	245.5		mg/Kg		98	90 - 110				
Lab Sample ID: LCSD 880-74607/3-A							Client Sample ID: Lab Control Sample Dup				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 74745											
Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit		
Chloride	250	244.2		mg/Kg		98	90 - 110	1	20		
Lab Sample ID: 890-6288-1 MS							Client Sample ID: BH 07				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 74745											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	53.9		250	319.2		mg/Kg		106	90 - 110		
Lab Sample ID: 890-6288-1 MSD							Client Sample ID: BH 07				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 74745											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit	
Chloride	53.9		250	317.0		mg/Kg		105	90 - 110	1 20	
Lab Sample ID: 890-6288-11 MS							Client Sample ID: BH 10				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 74745											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	69.4	F1	250	292.0	F1	mg/Kg		89	90 - 110		
Lab Sample ID: 890-6288-11 MSD							Client Sample ID: BH 10				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 74745											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD Limit	
Chloride	69.4	F1	250	291.0	F1	mg/Kg		89	90 - 110	0 20	
Lab Sample ID: MB 880-74617/1-A							Client Sample ID: Method Blank				
Matrix: Solid							Prep Type: Soluble				
Analysis Batch: 74746											
Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	<5.00	U	5.00	mg/Kg			03/07/24 12:59	1			

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QC Sample Results

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-74617/2-A						Client Sample ID: Lab Control Sample					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 74746											
Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	237.2		mg/Kg		95	90 - 110		

Lab Sample ID: LCSD 880-74617/3-A						Client Sample ID: Lab Control Sample Dup					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 74746											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	237.7		mg/Kg		95	90 - 110	0	20

Lab Sample ID: 890-6288-15 MS						Client Sample ID: BH 10D					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 74746											
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	194		250	431.4		mg/Kg		95	90 - 110		

Lab Sample ID: 890-6288-15 MSD						Client Sample ID: BH 10D					
Matrix: Solid						Prep Type: Soluble					
Analysis Batch: 74746											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	194		250	426.1		mg/Kg		93	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

GC VOA

Prep Batch: 74652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-1	BH 07	Total/NA	Solid	5035	
890-6288-2	BH 07A	Total/NA	Solid	5035	
890-6288-3	BH 07B	Total/NA	Solid	5035	
890-6288-4	BH 07C	Total/NA	Solid	5035	
890-6288-5	BH 07D	Total/NA	Solid	5035	
890-6288-6	BH 08	Total/NA	Solid	5035	
890-6288-7	BH 08A	Total/NA	Solid	5035	
890-6288-8	BH 08B	Total/NA	Solid	5035	
890-6288-9	BH 08C	Total/NA	Solid	5035	
890-6288-10	BH 08D	Total/NA	Solid	5035	
890-6288-11	BH 10	Total/NA	Solid	5035	
890-6288-12	BH 10A	Total/NA	Solid	5035	
890-6288-13	BH 10B	Total/NA	Solid	5035	
890-6288-14	BH 10C	Total/NA	Solid	5035	
890-6288-15	BH 10D	Total/NA	Solid	5035	
890-6288-16	BH 09	Total/NA	Solid	5035	
890-6288-17	BH 09A	Total/NA	Solid	5035	
890-6288-18	BH 09B	Total/NA	Solid	5035	
890-6288-19	BH 09C	Total/NA	Solid	5035	
890-6288-20	BH 09D	Total/NA	Solid	5035	
MB 880-74652/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74652/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74652/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6288-1 MS	BH 07	Total/NA	Solid	5035	
890-6288-1 MSD	BH 07	Total/NA	Solid	5035	

Analysis Batch: 74750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-1	BH 07	Total/NA	Solid	8021B	74652
890-6288-2	BH 07A	Total/NA	Solid	8021B	74652
890-6288-3	BH 07B	Total/NA	Solid	8021B	74652
890-6288-4	BH 07C	Total/NA	Solid	8021B	74652
890-6288-5	BH 07D	Total/NA	Solid	8021B	74652
890-6288-6	BH 08	Total/NA	Solid	8021B	74652
890-6288-7	BH 08A	Total/NA	Solid	8021B	74652
890-6288-8	BH 08B	Total/NA	Solid	8021B	74652
890-6288-9	BH 08C	Total/NA	Solid	8021B	74652
890-6288-10	BH 08D	Total/NA	Solid	8021B	74652
890-6288-11	BH 10	Total/NA	Solid	8021B	74652
890-6288-12	BH 10A	Total/NA	Solid	8021B	74652
890-6288-13	BH 10B	Total/NA	Solid	8021B	74652
890-6288-14	BH 10C	Total/NA	Solid	8021B	74652
890-6288-15	BH 10D	Total/NA	Solid	8021B	74652
890-6288-16	BH 09	Total/NA	Solid	8021B	74652
890-6288-17	BH 09A	Total/NA	Solid	8021B	74652
890-6288-18	BH 09B	Total/NA	Solid	8021B	74652
890-6288-19	BH 09C	Total/NA	Solid	8021B	74652
890-6288-20	BH 09D	Total/NA	Solid	8021B	74652
MB 880-74652/5-A	Method Blank	Total/NA	Solid	8021B	74652
LCS 880-74652/1-A	Lab Control Sample	Total/NA	Solid	8021B	74652
LCSD 880-74652/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74652

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

GC VOA (Continued)

Analysis Batch: 74750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-1 MS	BH 07	Total/NA	Solid	8021B	74652
890-6288-1 MSD	BH 07	Total/NA	Solid	8021B	74652

Analysis Batch: 74916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-1	BH 07	Total/NA	Solid	Total BTEX	
890-6288-2	BH 07A	Total/NA	Solid	Total BTEX	
890-6288-3	BH 07B	Total/NA	Solid	Total BTEX	
890-6288-4	BH 07C	Total/NA	Solid	Total BTEX	
890-6288-5	BH 07D	Total/NA	Solid	Total BTEX	
890-6288-6	BH 08	Total/NA	Solid	Total BTEX	
890-6288-7	BH 08A	Total/NA	Solid	Total BTEX	
890-6288-8	BH 08B	Total/NA	Solid	Total BTEX	
890-6288-9	BH 08C	Total/NA	Solid	Total BTEX	
890-6288-10	BH 08D	Total/NA	Solid	Total BTEX	
890-6288-11	BH 10	Total/NA	Solid	Total BTEX	
890-6288-12	BH 10A	Total/NA	Solid	Total BTEX	
890-6288-13	BH 10B	Total/NA	Solid	Total BTEX	
890-6288-14	BH 10C	Total/NA	Solid	Total BTEX	
890-6288-15	BH 10D	Total/NA	Solid	Total BTEX	
890-6288-16	BH 09	Total/NA	Solid	Total BTEX	
890-6288-17	BH 09A	Total/NA	Solid	Total BTEX	
890-6288-18	BH 09B	Total/NA	Solid	Total BTEX	
890-6288-19	BH 09C	Total/NA	Solid	Total BTEX	
890-6288-20	BH 09D	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 74775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-1	BH 07	Total/NA	Solid	8015B NM	74821
890-6288-2	BH 07A	Total/NA	Solid	8015B NM	74821
890-6288-3	BH 07B	Total/NA	Solid	8015B NM	74821
890-6288-4	BH 07C	Total/NA	Solid	8015B NM	74821
890-6288-5	BH 07D	Total/NA	Solid	8015B NM	74821
890-6288-6	BH 08	Total/NA	Solid	8015B NM	74821
890-6288-7	BH 08A	Total/NA	Solid	8015B NM	74821
890-6288-8	BH 08B	Total/NA	Solid	8015B NM	74821
890-6288-9	BH 08C	Total/NA	Solid	8015B NM	74821
890-6288-10	BH 08D	Total/NA	Solid	8015B NM	74821
890-6288-11	BH 10	Total/NA	Solid	8015B NM	74821
890-6288-12	BH 10A	Total/NA	Solid	8015B NM	74821
890-6288-13	BH 10B	Total/NA	Solid	8015B NM	74821
890-6288-14	BH 10C	Total/NA	Solid	8015B NM	74821
890-6288-15	BH 10D	Total/NA	Solid	8015B NM	74821
890-6288-16	BH 09	Total/NA	Solid	8015B NM	74821
890-6288-17	BH 09A	Total/NA	Solid	8015B NM	74821
890-6288-18	BH 09B	Total/NA	Solid	8015B NM	74821
890-6288-19	BH 09C	Total/NA	Solid	8015B NM	74821
890-6288-20	BH 09D	Total/NA	Solid	8015B NM	74821
MB 880-74821/1-A	Method Blank	Total/NA	Solid	8015B NM	74821

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

GC Semi VOA (Continued)

Analysis Batch: 74775 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-74821/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74821
LCSD 880-74821/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74821
890-6288-1 MS	BH 07	Total/NA	Solid	8015B NM	74821
890-6288-1 MSD	BH 07	Total/NA	Solid	8015B NM	74821

Prep Batch: 74821

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-1	BH 07	Total/NA	Solid	8015NM Prep	
890-6288-2	BH 07A	Total/NA	Solid	8015NM Prep	
890-6288-3	BH 07B	Total/NA	Solid	8015NM Prep	
890-6288-4	BH 07C	Total/NA	Solid	8015NM Prep	
890-6288-5	BH 07D	Total/NA	Solid	8015NM Prep	
890-6288-6	BH 08	Total/NA	Solid	8015NM Prep	
890-6288-7	BH 08A	Total/NA	Solid	8015NM Prep	
890-6288-8	BH 08B	Total/NA	Solid	8015NM Prep	
890-6288-9	BH 08C	Total/NA	Solid	8015NM Prep	
890-6288-10	BH 08D	Total/NA	Solid	8015NM Prep	
890-6288-11	BH 10	Total/NA	Solid	8015NM Prep	
890-6288-12	BH 10A	Total/NA	Solid	8015NM Prep	
890-6288-13	BH 10B	Total/NA	Solid	8015NM Prep	
890-6288-14	BH 10C	Total/NA	Solid	8015NM Prep	
890-6288-15	BH 10D	Total/NA	Solid	8015NM Prep	
890-6288-16	BH 09	Total/NA	Solid	8015NM Prep	
890-6288-17	BH 09A	Total/NA	Solid	8015NM Prep	
890-6288-18	BH 09B	Total/NA	Solid	8015NM Prep	
890-6288-19	BH 09C	Total/NA	Solid	8015NM Prep	
890-6288-20	BH 09D	Total/NA	Solid	8015NM Prep	
MB 880-74821/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74821/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74821/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6288-1 MS	BH 07	Total/NA	Solid	8015NM Prep	
890-6288-1 MSD	BH 07	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-1	BH 07	Total/NA	Solid	8015 NM	
890-6288-2	BH 07A	Total/NA	Solid	8015 NM	
890-6288-3	BH 07B	Total/NA	Solid	8015 NM	
890-6288-4	BH 07C	Total/NA	Solid	8015 NM	
890-6288-5	BH 07D	Total/NA	Solid	8015 NM	
890-6288-6	BH 08	Total/NA	Solid	8015 NM	
890-6288-7	BH 08A	Total/NA	Solid	8015 NM	
890-6288-8	BH 08B	Total/NA	Solid	8015 NM	
890-6288-9	BH 08C	Total/NA	Solid	8015 NM	
890-6288-10	BH 08D	Total/NA	Solid	8015 NM	
890-6288-11	BH 10	Total/NA	Solid	8015 NM	
890-6288-12	BH 10A	Total/NA	Solid	8015 NM	
890-6288-13	BH 10B	Total/NA	Solid	8015 NM	
890-6288-14	BH 10C	Total/NA	Solid	8015 NM	
890-6288-15	BH 10D	Total/NA	Solid	8015 NM	
890-6288-16	BH 09	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

GC Semi VOA (Continued)

Analysis Batch: 74888 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-17	BH 09A	Total/NA	Solid	8015 NM	
890-6288-18	BH 09B	Total/NA	Solid	8015 NM	
890-6288-19	BH 09C	Total/NA	Solid	8015 NM	
890-6288-20	BH 09D	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 74607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-1	BH 07	Soluble	Solid	DI Leach	
890-6288-2	BH 07A	Soluble	Solid	DI Leach	
890-6288-3	BH 07B	Soluble	Solid	DI Leach	
890-6288-4	BH 07C	Soluble	Solid	DI Leach	
890-6288-5	BH 07D	Soluble	Solid	DI Leach	
890-6288-6	BH 08	Soluble	Solid	DI Leach	
890-6288-7	BH 08A	Soluble	Solid	DI Leach	
890-6288-8	BH 08B	Soluble	Solid	DI Leach	
890-6288-9	BH 08C	Soluble	Solid	DI Leach	
890-6288-10	BH 08D	Soluble	Solid	DI Leach	
890-6288-11	BH 10	Soluble	Solid	DI Leach	
890-6288-12	BH 10A	Soluble	Solid	DI Leach	
890-6288-13	BH 10B	Soluble	Solid	DI Leach	
890-6288-14	BH 10C	Soluble	Solid	DI Leach	
MB 880-74607/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74607/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74607/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6288-1 MS	BH 07	Soluble	Solid	DI Leach	
890-6288-1 MSD	BH 07	Soluble	Solid	DI Leach	
890-6288-11 MS	BH 10	Soluble	Solid	DI Leach	
890-6288-11 MSD	BH 10	Soluble	Solid	DI Leach	

Leach Batch: 74617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-15	BH 10D	Soluble	Solid	DI Leach	
890-6288-16	BH 09	Soluble	Solid	DI Leach	
890-6288-17	BH 09A	Soluble	Solid	DI Leach	
890-6288-18	BH 09B	Soluble	Solid	DI Leach	
890-6288-19	BH 09C	Soluble	Solid	DI Leach	
890-6288-20	BH 09D	Soluble	Solid	DI Leach	
MB 880-74617/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74617/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74617/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-6288-15 MS	BH 10D	Soluble	Solid	DI Leach	
890-6288-15 MSD	BH 10D	Soluble	Solid	DI Leach	

Analysis Batch: 74745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-1	BH 07	Soluble	Solid	300.0	74607
890-6288-2	BH 07A	Soluble	Solid	300.0	74607
890-6288-3	BH 07B	Soluble	Solid	300.0	74607
890-6288-4	BH 07C	Soluble	Solid	300.0	74607

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QC Association Summary

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

HPLC/IC (Continued)

Analysis Batch: 74745 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-5	BH 07D	Soluble	Solid	300.0	74607
890-6288-6	BH 08	Soluble	Solid	300.0	74607
890-6288-7	BH 08A	Soluble	Solid	300.0	74607
890-6288-8	BH 08B	Soluble	Solid	300.0	74607
890-6288-9	BH 08C	Soluble	Solid	300.0	74607
890-6288-10	BH 08D	Soluble	Solid	300.0	74607
890-6288-11	BH 10	Soluble	Solid	300.0	74607
890-6288-12	BH 10A	Soluble	Solid	300.0	74607
890-6288-13	BH 10B	Soluble	Solid	300.0	74607
890-6288-14	BH 10C	Soluble	Solid	300.0	74607
MB 880-74607/1-A	Method Blank	Soluble	Solid	300.0	74607
LCS 880-74607/2-A	Lab Control Sample	Soluble	Solid	300.0	74607
LCSD 880-74607/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74607
890-6288-1 MS	BH 07	Soluble	Solid	300.0	74607
890-6288-1 MSD	BH 07	Soluble	Solid	300.0	74607
890-6288-11 MS	BH 10	Soluble	Solid	300.0	74607
890-6288-11 MSD	BH 10	Soluble	Solid	300.0	74607

Analysis Batch: 74746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-6288-15	BH 10D	Soluble	Solid	300.0	74617
890-6288-16	BH 09	Soluble	Solid	300.0	74617
890-6288-17	BH 09A	Soluble	Solid	300.0	74617
890-6288-18	BH 09B	Soluble	Solid	300.0	74617
890-6288-19	BH 09C	Soluble	Solid	300.0	74617
890-6288-20	BH 09D	Soluble	Solid	300.0	74617
MB 880-74617/1-A	Method Blank	Soluble	Solid	300.0	74617
LCS 880-74617/2-A	Lab Control Sample	Soluble	Solid	300.0	74617
LCSD 880-74617/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74617
890-6288-15 MS	BH 10D	Soluble	Solid	300.0	74617
890-6288-15 MSD	BH 10D	Soluble	Solid	300.0	74617

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 07
Date Collected: 02/28/24 13:10
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-1
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	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 11:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 11:55	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/05/24 22:12	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/05/24 22:12	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 16:52	CH	EET MID

Client Sample ID: BH 07A
Date Collected: 02/28/24 13:15
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-2
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			4.99 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 12:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/05/24 23:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/05/24 23:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:05	CH	EET MID

Client Sample ID: BH 07B
Date Collected: 02/28/24 13:20
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 12:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/05/24 23:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/05/24 23:42	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:09	CH	EET MID

Client Sample ID: BH 07C
Date Collected: 02/28/24 13:25
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 12:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 12:58	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 07C
Date Collected: 02/28/24 13:25
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-4
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			74888	03/06/24 00:04	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 00:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:14	CH	EET MID

Client Sample ID: BH 07D
Date Collected: 02/28/24 13:30
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-5
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	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 13:18	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 13:18	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 00:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 00:27	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:18	CH	EET MID

Client Sample ID: BH 08
Date Collected: 02/28/24 13:35
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-6
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			5.01 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 13:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 13:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 00:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 00:49	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:31	CH	EET MID

Client Sample ID: BH 08A
Date Collected: 02/28/24 13:40
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 14:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 01:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 01:11	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 08A
Date Collected: 02/28/24 13:40
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-7
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			5.03 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:36	CH	EET MID

Client Sample ID: BH 08B
Date Collected: 02/28/24 13:45
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 14:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 14:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 01:34	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 01:34	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:40	CH	EET MID

Client Sample ID: BH 08C
Date Collected: 02/28/24 13:50
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 14:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 14:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 01:56	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 01:56	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:45	CH	EET MID

Client Sample ID: BH 08D
Date Collected: 02/28/24 13:55
Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 15:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 15:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 02:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 02:18	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:49	CH	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 10

Date Collected: 02/28/24 14:00

Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 16:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 03:03	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 03:03	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 17:54	CH	EET MID

Client Sample ID: BH 10A

Date Collected: 02/28/24 14:05

Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 16:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 16:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 03:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 03:25	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 18:07	CH	EET MID

Client Sample ID: BH 10B

Date Collected: 02/28/24 14:10

Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 17:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 17:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 03:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 03:47	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 18:11	CH	EET MID

Client Sample ID: BH 10C

Date Collected: 02/28/24 14:15

Date Received: 02/29/24 14:29

Lab Sample ID: 890-6288-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 17:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 17:29	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 10C

Lab Sample ID: 890-6288-14

Date Collected: 02/28/24 14:15

Matrix: Solid

Date Received: 02/29/24 14:29

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			74888	03/06/24 04:08	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 04:08	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74607	03/04/24 11:06	SMC	EET MID
Soluble	Analysis	300.0		1			74745	03/05/24 18:25	CH	EET MID

Client Sample ID: BH 10D

Lab Sample ID: 890-6288-15

Date Collected: 02/28/24 14:20

Matrix: Solid

Date Received: 02/29/24 14:29

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 17:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 17:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 04:31	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 04:31	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74617	03/04/24 11:16	SMC	EET MID
Soluble	Analysis	300.0		1			74746	03/07/24 13:22	CH	EET MID

Client Sample ID: BH 09

Lab Sample ID: 890-6288-16

Date Collected: 02/28/24 14:25

Matrix: Solid

Date Received: 02/29/24 14:29

Prep 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	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 18:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 18:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 04:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 04:54	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74617	03/04/24 11:16	SMC	EET MID
Soluble	Analysis	300.0		1			74746	03/07/24 13:45	CH	EET MID

Client Sample ID: BH 09A

Lab Sample ID: 890-6288-17

Date Collected: 02/28/24 14:30

Matrix: Solid

Date Received: 02/29/24 14:29

Prep 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	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 18:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 18:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 05:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 05:15	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Client Sample ID: BH 09A

Lab Sample ID: 890-6288-17

Date Collected: 02/28/24 14:30

Matrix: Solid

Date Received: 02/29/24 14:29

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	74617	03/04/24 11:16	SMC	EET MID
Soluble	Analysis	300.0		1			74746	03/07/24 13:53	CH	EET MID

Client Sample ID: BH 09B

Lab Sample ID: 890-6288-18

Date Collected: 02/28/24 14:35

Matrix: Solid

Date Received: 02/29/24 14:29

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	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 18:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 18:51	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 05:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 05:36	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74617	03/04/24 11:16	SMC	EET MID
Soluble	Analysis	300.0		1			74746	03/07/24 14:01	CH	EET MID

Client Sample ID: BH 09C

Lab Sample ID: 890-6288-19

Date Collected: 02/28/24 14:40

Matrix: Solid

Date Received: 02/29/24 14:29

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	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 19:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 19:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 05:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 05:57	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74617	03/04/24 11:16	SMC	EET MID
Soluble	Analysis	300.0		1			74746	03/07/24 14:09	CH	EET MID

Client Sample ID: BH 09D

Lab Sample ID: 890-6288-20

Date Collected: 02/28/24 14:45

Matrix: Solid

Date Received: 02/29/24 14:29

Prep 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	74652	03/04/24 13:22	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/05/24 19:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74916	03/05/24 19:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			74888	03/06/24 06:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	74821	03/05/24 14:06	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74775	03/06/24 06:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74617	03/04/24 11:16	SMC	EET MID
Soluble	Analysis	300.0		1			74746	03/07/24 14:32	CH	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

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: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

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: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

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: PLU C-1 Recycle Facility

Job ID: 890-6288-1
SDG: 03C1558251

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-6288-1	BH 07	Solid	02/28/24 13:10	02/29/24 14:29	0.5'
890-6288-2	BH 07A	Solid	02/28/24 13:15	02/29/24 14:29	1'
890-6288-3	BH 07B	Solid	02/28/24 13:20	02/29/24 14:29	2'
890-6288-4	BH 07C	Solid	02/28/24 13:25	02/29/24 14:29	3'
890-6288-5	BH 07D	Solid	02/28/24 13:30	02/29/24 14:29	4'
890-6288-6	BH 08	Solid	02/28/24 13:35	02/29/24 14:29	0.5'
890-6288-7	BH 08A	Solid	02/28/24 13:40	02/29/24 14:29	1'
890-6288-8	BH 08B	Solid	02/28/24 13:45	02/29/24 14:29	2'
890-6288-9	BH 08C	Solid	02/28/24 13:50	02/29/24 14:29	3'
890-6288-10	BH 08D	Solid	02/28/24 13:55	02/29/24 14:29	4'
890-6288-11	BH 10	Solid	02/28/24 14:00	02/29/24 14:29	0.5'
890-6288-12	BH 10A	Solid	02/28/24 14:05	02/29/24 14:29	1'
890-6288-13	BH 10B	Solid	02/28/24 14:10	02/29/24 14:29	2'
890-6288-14	BH 10C	Solid	02/28/24 14:15	02/29/24 14:29	3'
890-6288-15	BH 10D	Solid	02/28/24 14:20	02/29/24 14:29	4'
890-6288-16	BH 09	Solid	02/28/24 14:25	02/29/24 14:29	0.5'
890-6288-17	BH 09A	Solid	02/28/24 14:30	02/29/24 14:29	1'
890-6288-18	BH 09B	Solid	02/28/24 14:35	02/29/24 14:29	2'
890-6288-19	BH 09C	Solid	02/28/24 14:40	02/29/24 14:29	3'
890-6288-20	BH 09D	Solid	02/28/24 14:45	02/29/24 14:29	4'



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) 968-3199

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	Ben Beill	Bill to: (if different)	Amy Ruth
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:	989-854-0852	Email:	amy.ruth@xencomobility.com

Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	

Project Name:	PLU C-1 Recycle Facility	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number:	03C1558251	Due Date:	5 days
Project Location:	32.21356, -103.8604	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Mariah O'Dell		
PO #:			
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Thermometer ID:	7WMO07
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Correction Factor:	-0.2
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Temperature Reading:	1.4
Total Containers:		Corrected Temperature:	1.2



890-6288 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes	Sample Comments
BH07	S	2/28/24	13:10	0.5'	G	1	CHLORIDES (EPA: 300.0)		None: NO	DI Water: H ₂ O
BH07A			13:15	1'			TPH		Cool: Cool	MeOH: Me
BH07B			13:20	2'			BTEX		HCL: HC	HNO ₃ : HN
BH07C			13:30	3'					H ₂ SO ₄ : H ₂	NaOH: Na
BH07D			13:30	4'					H ₃ PO ₄ : HP	
BH08			13:40	0.5'					NaHSO ₄ : NABIS	
BH08A			13:40	1'					Na ₂ S ₂ O ₃ : NaSO ₃	
BH08B			13:45	2'					Zn Acetate+NaOH: Zn	
BH08C			13:50	3'					NaOH+Ascorbic Acid: SAPC	
BH08D			13:55	4'						

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	B	Cd	Ca	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U	Hg: 1631 / 245.1 / 7470 / 7471										

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. Madeline Green MO	MA. O'Dell	14:27 2/29			
3					
5					



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:	Ben Beill	Bill to: (if different)	Amy Ruth
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:	989-854-0852	Email:	amy.ruth@exxonmobil.com

Program: <input type="checkbox"/> PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project: _____	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:	PLU C-1 Recycle Facility	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	ANALYSIS REQUEST										Preservative Codes		
Project Number:	03C1558251	Due Date:	5 days													None: NO	DI Water: H ₂ O
Project Location:	32.21356, -103.8604	TAT starts the day received by the lab, if received by 4:30pm														Cool: Cool	MeOH: Me
Sampler's Name:	Mariah O'Dell															HCL: HC	HNO ₃ : HN
PO #:																H ₂ SO ₄ : H ₂	NaOH: Na
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No														H ₃ PO ₄ : HP	
Samples Received Intact:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:														NaHSO ₄ : NABIS	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:														Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:														Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:														NaOH+Ascorbic Acid: SACP	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	CHLOR	TP	BT										Sample Comments
BH10	5K0212824	14:00	0.5'	G	I	X	X	X											Incident #: NAPP2316047464
BH10A		14:05	1'																Cost Center: 2219821001,
BH10B		14:10	2'																2219871001, 2219781001,
BH10C		14:15	3'																2219791001
BH10D		14:20	4'																Ben Beilli:
BH09		14:25	0.5'																bbeilli@ensolum.com
BH09A		14:30	1'																
BH09B		14:35	2'																
BH09C		14:40	3'																
BH09D		14:45	4'																

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
1 Hadie Green		14:27 2/24			
3					
5					

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-6288-1

SDG Number: 03C1558251

Login Number: 6288

List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

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: 890-6288-1
SDG Number: 03C1558251

Login Number: 6288
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/04/24 12:22 PM

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").	N/A	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

March 27, 2024

BEN BELILL

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PLU C - 1 RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 03/21/24 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 18 2' (H241481-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72	
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52	
Total BTX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/22/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 19 2' (H241481-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 21 2' (H241481-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 22 2' (H241481-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/22/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 140 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 24 2' (H241481-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	7.14	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 20 2' (H241481-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 23 2' (H241481-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 143 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 25 2' (H241481-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 26 2' (H241481-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72	
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	03/25/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 29 2' (H241481-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 27 2' (H241481-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 28 2' (H241481-12)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 30 2' (H241481-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72	
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 31 4' (H241481-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 33 4' (H241481-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 35 4' (H241481-16)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 134 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 13 2' (H241481-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 32 4' (H241481-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 34 4' (H241481-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	176	88.1	200	3.57	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	193	96.6	200	0.493	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 145 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 36 4' (H241481-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.20	110	2.00	3.72		
Toluene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	3.27		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.11	105	2.00	2.80		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.33	106	6.00	3.52		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 37 4' (H241481-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 38 4' (H241481-22)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 39 4' (H241481-23)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 43 2' (H241481-24)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2024	ND	464	116	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 40 4' (H241481-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 41 0.5' (H241481-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 44 0.5' (H241481-27)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTX	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 42 0.5' (H241481-28)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776	
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50	
Total BTEx	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 45 0.5' (H241481-29)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776	
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50	
Total BTEx	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 46 0.5' (H241481-30)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 05 0-2' (H241481-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 06 0-2' (H241481-32)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776	
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50	
Total BTEx	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 07 0-2' (H241481-33)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776	
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/25/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 08 0-2' (H241481-34)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776	
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50	
Total BTEx	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/25/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 09 0-2' (H241481-35)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776	
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50	
Total BTEx	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 17 0-2' (H241481-36)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776	
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50	
Total BTEx	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 16 0-2' (H241481-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 12 0-4' (H241481-38)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 13 0-4' (H241481-39)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776		
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46		
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59		
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50		
Total BTEx	<0.300	0.300	03/23/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/22/2024	ND	188	94.2	200	3.06	
DRO >C10-C28*	<10.0	10.0	03/22/2024	ND	175	87.4	200	2.10	
EXT DRO >C28-C36	<10.0	10.0	03/22/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 14 0-4' (H241481-40)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2024	ND	2.17	109	2.00	0.776	
Toluene*	<0.050	0.050	03/23/2024	ND	2.14	107	2.00	2.46	
Ethylbenzene*	<0.050	0.050	03/23/2024	ND	2.18	109	2.00	2.59	
Total Xylenes*	<0.150	0.150	03/23/2024	ND	6.53	109	6.00	2.50	
Total BTEX	<0.300	0.300	03/23/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/27/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/27/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.1 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 10 0-4' (H241481-41)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2024	ND	2.10	105	2.00	6.30		
Toluene*	<0.050	0.050	03/24/2024	ND	2.05	103	2.00	6.32		
Ethylbenzene*	<0.050	0.050	03/24/2024	ND	2.01	101	2.00	6.29		
Total Xylenes*	<0.150	0.150	03/24/2024	ND	5.85	97.6	6.00	6.29		
Total BTEX	<0.300	0.300	03/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 126 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 15 0-4' (H241481-42)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2024	ND	2.10	105	2.00	6.30	
Toluene*	<0.050	0.050	03/24/2024	ND	2.05	103	2.00	6.32	
Ethylbenzene*	<0.050	0.050	03/24/2024	ND	2.01	101	2.00	6.29	
Total Xylenes*	<0.150	0.150	03/24/2024	ND	5.85	97.6	6.00	6.29	
Total BTEX	<0.300	0.300	03/24/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 18 0-4' (H241481-43)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2024	ND	2.10	105	2.00	6.30		
Toluene*	<0.050	0.050	03/24/2024	ND	2.05	103	2.00	6.32		
Ethylbenzene*	<0.050	0.050	03/24/2024	ND	2.01	101	2.00	6.29		
Total Xylenes*	<0.150	0.150	03/24/2024	ND	5.85	97.6	6.00	6.29		
Total BTEX	<0.300	0.300	03/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/25/2024	ND	464	116	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 141 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 19 0-0.5' (H241481-44)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2024	ND	2.10	105	2.00	6.30		
Toluene*	<0.050	0.050	03/24/2024	ND	2.05	103	2.00	6.32		
Ethylbenzene*	<0.050	0.050	03/24/2024	ND	2.01	101	2.00	6.29		
Total Xylenes*	<0.150	0.150	03/24/2024	ND	5.85	97.6	6.00	6.29		
Total BTEx	<0.300	0.300	03/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/25/2024	ND	464	116	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 20 0-0.5' (H241481-45)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2024	ND	2.10	105	2.00	6.30		
Toluene*	<0.050	0.050	03/24/2024	ND	2.05	103	2.00	6.32		
Ethylbenzene*	<0.050	0.050	03/24/2024	ND	2.01	101	2.00	6.29		
Total Xylenes*	<0.150	0.150	03/24/2024	ND	5.85	97.6	6.00	6.29		
Total BTEx	<0.300	0.300	03/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/25/2024	ND	464	116	400	3.51	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 11 0-4' (H241481-46)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2024	ND	2.10	105	2.00	6.30		
Toluene*	<0.050	0.050	03/24/2024	ND	2.05	103	2.00	6.32		
Ethylbenzene*	<0.050	0.050	03/24/2024	ND	2.01	101	2.00	6.29		
Total Xylenes*	<0.150	0.150	03/24/2024	ND	5.85	97.6	6.00	6.29		
Total BTEx	<0.300	0.300	03/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/25/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 49.1-148

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Analytical Results For:

ENSOLUM
BEN BELILL
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 03/21/2024
Reported: 03/27/2024
Project Name: PLU C - 1 RECYCLE FACILITY
Project Number: 03C1558251
Project Location: XTO 32.21356-103.8604

Sampling Date: 03/20/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW 21 0-2' (H241481-47)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/24/2024	ND	2.10	105	2.00	6.30		
Toluene*	<0.050	0.050	03/24/2024	ND	2.05	103	2.00	6.32		
Ethylbenzene*	<0.050	0.050	03/24/2024	ND	2.01	101	2.00	6.29		
Total Xylenes*	<0.150	0.150	03/24/2024	ND	5.85	97.6	6.00	6.29		
Total BTEx	<0.300	0.300	03/24/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/25/2024	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/23/2024	ND	208	104	200	4.03	
DRO >C10-C28*	<10.0	10.0	03/23/2024	ND	210	105	200	3.63	
EXT DRO >C28-C36	<10.0	10.0	03/23/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

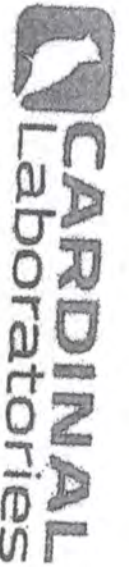
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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



101 East Maryland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: Ben Belli

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: (989) 854-0852 Fax #:

Project #: 03C1558251 Project Owner:

Project Name: PLU C-1 RECYCLE FACILITY

Project Location: 32.2135W -103.8604

Sampler Name: M. O'Dell

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address: 3124 E. Greene St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

Fax #:

DATE

TIME

Chloride

TPH

BTEX

DATE

TIME

Chloride

TPH

BTEX

DATE

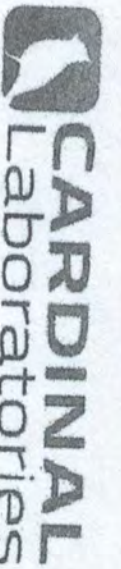
TIME

Chloride

TPH

ANALYSIS REQUEST

1 of 5



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Ben Bell

Address: 3122 National Parks Hwy

City: Carlsbad State: NM Zip: 88220

Phone #: (505) 854-0854 Fax #:

Project #: 0301558251 Project Owner:

Project Name: PLU C-1 Recycle Facility

Project Location: 32.21350, -103.86004

Sampler Name: M. O'Dell

P.O. #:

Company: XTO Energy

Attn: Amy Ruth

Address: 3104 E. Greene St.

City: Carlsbad

State: NM Zip: 88220

Phone #:

ANALYSIS REQUEST

2 of 5

Address: 3122 National Parks Hwy City: Carl'sbad Phone #: (989) 854 - 0857 Project #: 03C1558251 Project Name: PLU C-1 Recycle Facility Project Location: 32. 21350 , -103. 80047 Sampler Name: M. O'Dell										P.O. #:		Company: XTO Energy Attn: Amy Ruth Address: 3104 E. Greene St. City: Carl'sbad State: NM Zip: 88220 Phone #:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	Chloride	TPH	BTEX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																

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Relinquished By:

Date: 3/20/24

Time: 20:05

Received By:

Date: 3/20/24

Time: 20:05

Observed Temp.: 23

Corrected Temp.: 23

Sample Condition: Cool Intact

Checked By: (Initials)

Turnaround Time: Standard

Thermometer ID #1111

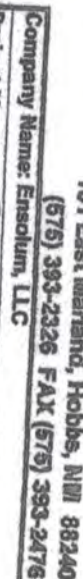
Verbal Result: ☐ Yes ☒ No Add'l Phone #:

All Results are emailed. Please provide Email address: bbell@ensolum.com, model@ensolum.com

REMARKS: Check Page 1 of 5

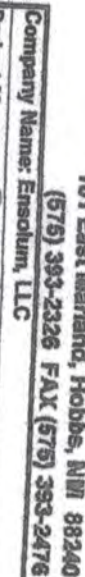
Bacteria (only) Sample Condition: ☐ Bacteria (only) ☐ Cool Intact ☐ Observed Temp.: 23

Corrected Temp.: 23



305

Page 52 of 54



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

505



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 24, 2024

BEN BELILL

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PLU C1 RECYCLE FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 04/19/24 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/19/2024
 Reported: 04/24/2024
 Project Name: PLU C1 RECYCLE FACILITY
 Project Number: 03C1558251
 Project Location: XTO 32.21393,- 103.86066

Sampling Date: 04/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 38 A 5 (H242108-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	4.45		
Toluene*	<0.050	0.050	04/22/2024	ND	1.89	94.5	2.00	7.46		
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.92	96.0	2.00	9.72		
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.67	94.5	6.00	11.3		
Total BTEX	<0.300	0.300	04/22/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	04/23/2024	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	207	103	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEN BELILL
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/19/2024
 Reported: 04/24/2024
 Project Name: PLU C1 RECYCLE FACILITY
 Project Number: 03C1558251
 Project Location: XTO 32.21393,- 103.86066

Sampling Date: 04/16/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 26 A 3 (H242108-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2024	ND	1.94	97.2	2.00	4.45	
Toluene*	<0.050	0.050	04/22/2024	ND	1.89	94.5	2.00	7.46	
Ethylbenzene*	<0.050	0.050	04/22/2024	ND	1.92	96.0	2.00	9.72	
Total Xylenes*	<0.150	0.150	04/22/2024	ND	5.67	94.5	6.00	11.3	
Total BTEX	<0.300	0.300	04/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/23/2024	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/22/2024	ND	201	101	200	0.204	
DRO >C10-C28*	<10.0	10.0	04/22/2024	ND	207	103	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	04/22/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

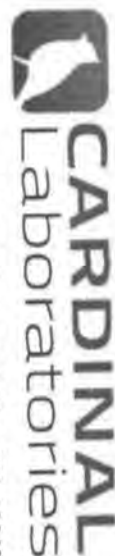
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 350603

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	350603
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2316047464
Incident Name	NAPP2316047464 PLUC 1 RECYCLE FACILITY @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	PLUC 1 RECYCLE FACILITY
Date Release Discovered	05/29/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pump Produced Water Released: 58 BBL Recovered: 0 BBL Lost: 58 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 350603

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	350603
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 06/04/2024
----------------------------------------------------	----------------------------------------------------------------------------------------------------------

District I1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720**District II**811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720**District III**1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170**District IV**1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462**State of New Mexico**
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 3

Action 350603

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	350603
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 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	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 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

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	327
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	02/26/2024
On what date will (or did) the final sampling or liner inspection occur	04/16/2024
On what date will (or was) the remediation complete(d)	05/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	8200
What is the estimated volume (in cubic yards) that will be reclaimed	600
What is the estimated surface area (in square feet) that will be remediated	8200
What is the estimated volume (in cubic yards) that will be remediated	600

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

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

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QUESTIONS, Page 4
Action 350603

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 350603
	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:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(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: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 06/04/2024
<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>	

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QUESTIONS, Page 5

Action 350603

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
	5380
	Action Number:
	350603
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 350603

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:	5380
	Action Number:	350603
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	332384
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/16/2024
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	1200

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	8200
What was the total volume (cubic yards) remediated	600
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	8200
What was the total volume (in cubic yards) reclaimed	600
Summarize any additional remediation activities not included by answers (above)	On May 29, 2023, mechanical failure on a pump flange resulted in the release of 58 barrels (bbls) of produced water onto a pipeline right-of-way (ROW). No fluids were recovered. Ensolum conducted Site assessment and delineation activities and presented the results in the Work Plan. The Work Plan was submitted on November 20, 2023 and approved by the NMOCD on March 26, 2024. Excavation activities were conducted at the Site in accordance with the approved Work Plan to address the May 29, 2023 release of produced water. Laboratory analytical results for the final confirmation soil samples indicate concentrations of all COCs were compliant with the Closure Criteria. Based on the soil sample laboratory analytical results, no further remediation is required. The excavation has been backfilled with material purchased locally and the Site has been recontoured to match pre-existing site conditions. Upon approval the Site will be re-seeded with an approved BLM seed mix.

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

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

I hereby agree and sign off to the above statement	Name: Alan Romero Title: Regulatory Analyst Email: alan.romero1@exxonmobil.com Date: 06/04/2024
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Action 350603

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
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	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 350603

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID:
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	Action Number:
	350603
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation closure approved.	6/7/2024
scwells	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/7/2024