



December 31, 2025

New Mexico Oil Conservation Division

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

**Re: Closure Request
JRUI 8 Substation (Illegal Dump)
Incident Number nAPP2524549272
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 JRUI 8 Substation (Site). The purpose of excavation and soil sampling activities, conducted in accordance with an approved Remediation Work Plan (*Work Plan*), was to address impacts to soil resulting from a release of crude oil at the Site. XTO is submitting this *Closure Request*, describing excavation activities that have occurred and requesting no further remediation for Incident Number nAPP2524549272.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit C (L3), Section 02, Township 23 South, Range 30 East, in Eddy County, New Mexico (32.341306°, -103.854361°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO) under Lease Number E052290011.

On August 25, 2025, an illegal dump occurred on an XTO lease road and adjacent pasture, which resulted in the release of approximately 52 barrels (bbls) of crude oil. A vacuum truck was immediately dispatched and recovered 30 bbls of released fluids. XTO submitted a Notification of Release (NOR) on September 2, 2025, and subsequently an Initial C-141 Application (C-141) on September 3, 2025, to the New Mexico Oil Conservation Division (NMOCD). The release was assigned Incident Number nAPP2524549272.

Ensolum conducted Site assessment, delineation and excavation activities and presented the results in a *Work Plan*. The *Work Plan* was submitted on November 24, 2025, and approved by the NMOCD on November 24, 2025. The *Work Plan* proposed excavation of impacted soil identified during delineation activities. The remediation activities described in the *Work Plan* are included below.

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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 below. 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 groundwater data is from the New Mexico Office of the State Engineer (NMOSE) soil boring, permitted as C-4387, located approximately 1.13 miles northeast of the Site. The soil boring was advanced to a depth of 110 bgs with no groundwater encountered. Several additional borings are located in closer proximity to the release area, including NMOSE permitted wells C-02638, C-02734, C-03561, and C-04512, as well as United States Geological Survey (USGS) monitoring well 322036103504401. Available data from these wells were either inaccessible or indicated they were installed for delineation purposes and no groundwater encountered, with total depths generally limited to 30 feet bgs or less. The Well Log for C-4387 is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 1,794 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area).

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

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

NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

A portion of the release was identified in the pasture, as a result, the release location was assessed for determination of whether the release encroached into undisturbed areas to comply with the Cultural Properties Protection Rule (CPP) prior to disturbing the surface with mechanical equipment. An Archaeological Records Management System (ARMS) review was performed for the right-of-way prior to construction. No cultural resources were identified within and/or around the release extent requiring remediation efforts. A copy of the NMSLO Cultural Resources Cover Sheet is included in Appendix B.

Biological Review

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

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- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site, but potential habitats of the Piping Plover and Texas Hornshell Clam might exist. A review of the Bureau of Land Management (BLM) NM Plant Wildlife Habitat maps indicated potential habitats for Scheer's beehive cactus near the Site. Threatened and endangered plant species are potentially present in the area surrounding the Site; however, no protected species were observed during remediation activities.
- The Site is located within an area of possible range of the Lesser Prairie Chicken habitat based on a review of SLO Candidate Conservation Agreement with Assurances (CCAA) map.
 - From March 1st through June 15th, no remediation activities occurred between the hours of 3:00 am to 9:00 am to protect any Lesser Prairie Chickens within the area.
- The Site is located within a high potential karst designation area, as determined by the Site Characterization.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Simona-Bippus complex, 0 to 5 percent slopes. The Simona-Bippus complex is not considered a sensitive soil per the SLO guidelines.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On September 25, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the C-141 and visual observations. Five delineation potholes (PH01 through PH05) were advanced via heavy equipment to a maximum depth of 5 feet bgs within the release extent to assess the vertical extent. Discrete soil samples were collected from each borehole at depths ranging from 0.5 feet to 5 feet bgs. In addition, thirteen soil samples (SS01 through SS13) were collected around the release extent from the ground surface to assess the lateral extent of the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The release extent and delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation is included in Appendix D.

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 Cardinal Laboratories (Cardinal) in Hobbs, New Mexico or 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 Standards Method 4500 or EPA Method 300.0.

Laboratory analytical results for delineation soil samples SS01 through SS13, with the exception of SS07, indicated all COC concentrations were compliant with Closure Criteria. Delineation soil sample SS07 indicated TPH concentrations exceeded the Closure Criteria and required excavation. Laboratory analytical results for delineation soil samples PH01 through PH03 indicated chloride concentrations exceeded Closure Criteria at 0.5 feet bgs but were in compliance at 1-foot bgs. Laboratory analytical results for delineation soil samples PH04 and PH05 indicated TPH concentrations exceeded Closure Criteria at 0.5 feet to 1-foot bgs but were in compliance at depths ranging from 2 feet to 4 feet bgs. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included as Appendix E.

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EXCAVATION SOIL SAMPLING ACTIVITIES

In accordance with the approved *Work Plan*, Ensolum personnel were onsite between November 18 and November 24, 2025, to oversee excavation activities. Excavation activities were performed utilizing heavy equipment. To direct excavation activities, soil was field screened for VOCs and chloride following the same procedure described above. The excavation of the lease road was completed in two sections to maintain access for traffic. The southern portion of the lease road was excavated, sampled, and backfilled prior to completing the northern portion of the lease road. Once field screening indicated impacted soil was adequately removed, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls 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 FS67 were collected from the floor of the excavation at depths ranging from 1-foot to 4 feet bgs. Confirmation soil samples SW01 through SW14 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The confirmation soil samples were collected, handled, and submitted for the same COCs as described above. The confirmation soil sample locations are depicted on Figure 3. Photographic documentation of the final excavation extent is provided in Appendix D.

The final excavation extent measured approximately 12,335 square feet. A total of approximately 825 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 has been backfilled with material purchased locally and the area was recontoured to match pre-existing Site conditions. Two representative 5-point composite samples (BF01 and BF02) were collected from the topsoil and caliche backfill material on November 24, 2025. The backfill soil samples were transported under strict chain-of-custody procedures to Cardinal and analyzed for the same COCs as above.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final excavation floor and sidewall samples indicated COC concentrations were compliant with the Closure Criteria. Excavation sidewall soil sample SW10 indicated chloride concentrations exceeded reclamation requirements and was subsequently over excavated and sampled under corresponding nomenclature. Field screenings for soil samples FS34, FS35, and SW01 collected on November 18 and 19, 2025 indicated the potential for COC concentrations exceeding the Closure Criteria. Due to the need to backfill immediately, those areas were over-excavated and resampled on November 19 and 21, 2025 prior to receiving final analytical results for initial samples collected. Following a review of laboratory analytical results from both sampling dates, all confirmation soil samples collected in those areas indicated COC concentrations were compliant with the Closure Criteria. The laboratory analytical results are summarized on the attached Table 1, and the complete laboratory analytical reports are included in Appendix E.

CLOSURE REQUEST

Excavation activities were conducted at the Site as indicated in the *Work Plan* to address the August 2025 illegal dump of crude oil. Laboratory analytical results for all final excavation soil samples collected indicate COC concentrations 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.

Excavation of soil has mitigated 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 closure for Incident Number nAPP2524549272.

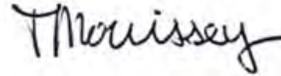
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If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Jaden Engels
Associate Geologist



Tacoma Morrissey, M.S., P.G.
Associate Principal

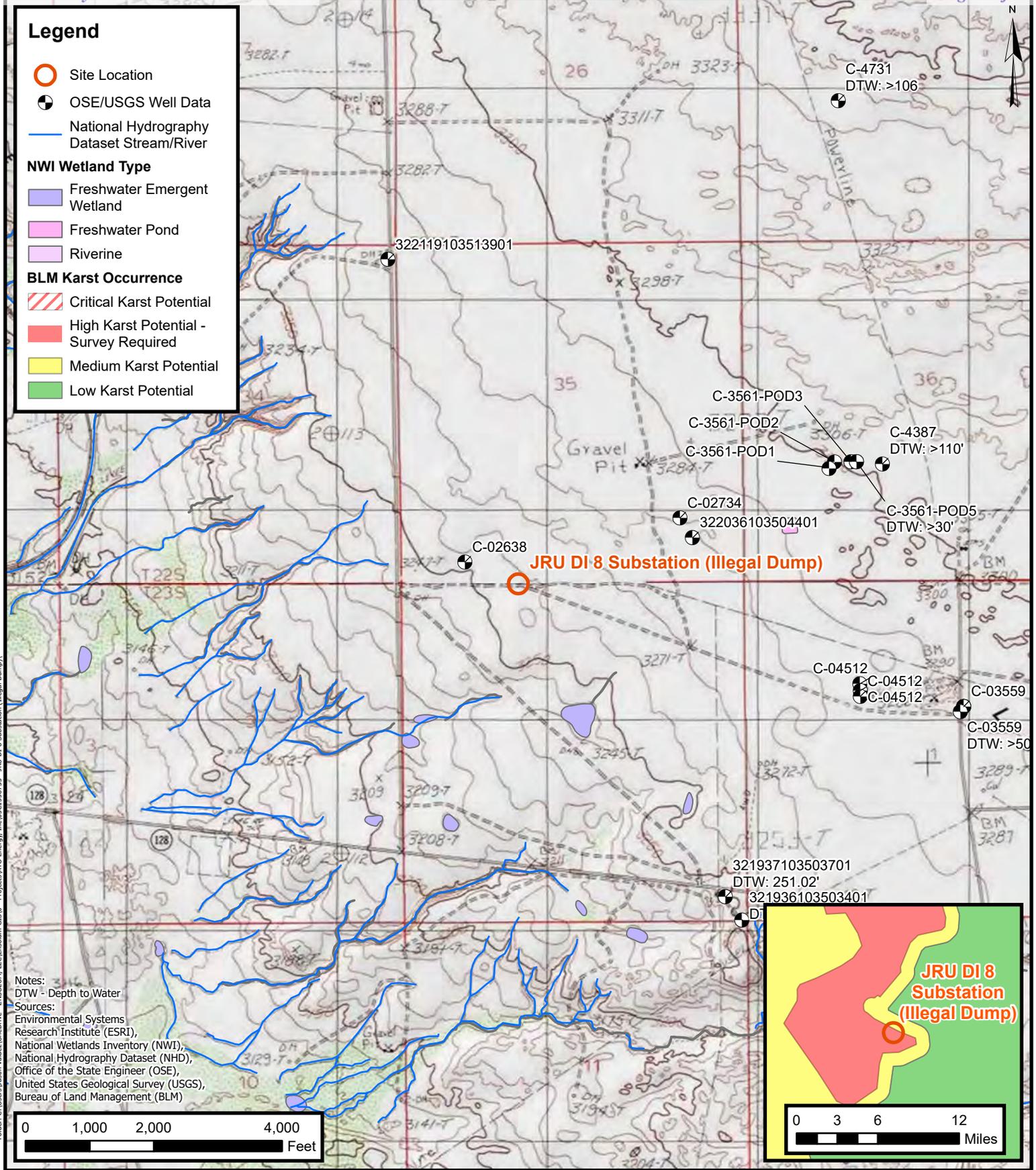
cc: Robert Woodall, XTO
Richard Kotzur, XTO
NMSLO

Appendices:

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	Referenced Well Records
Appendix B	Land Access References
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	Spill Volume Calculation



FIGURES



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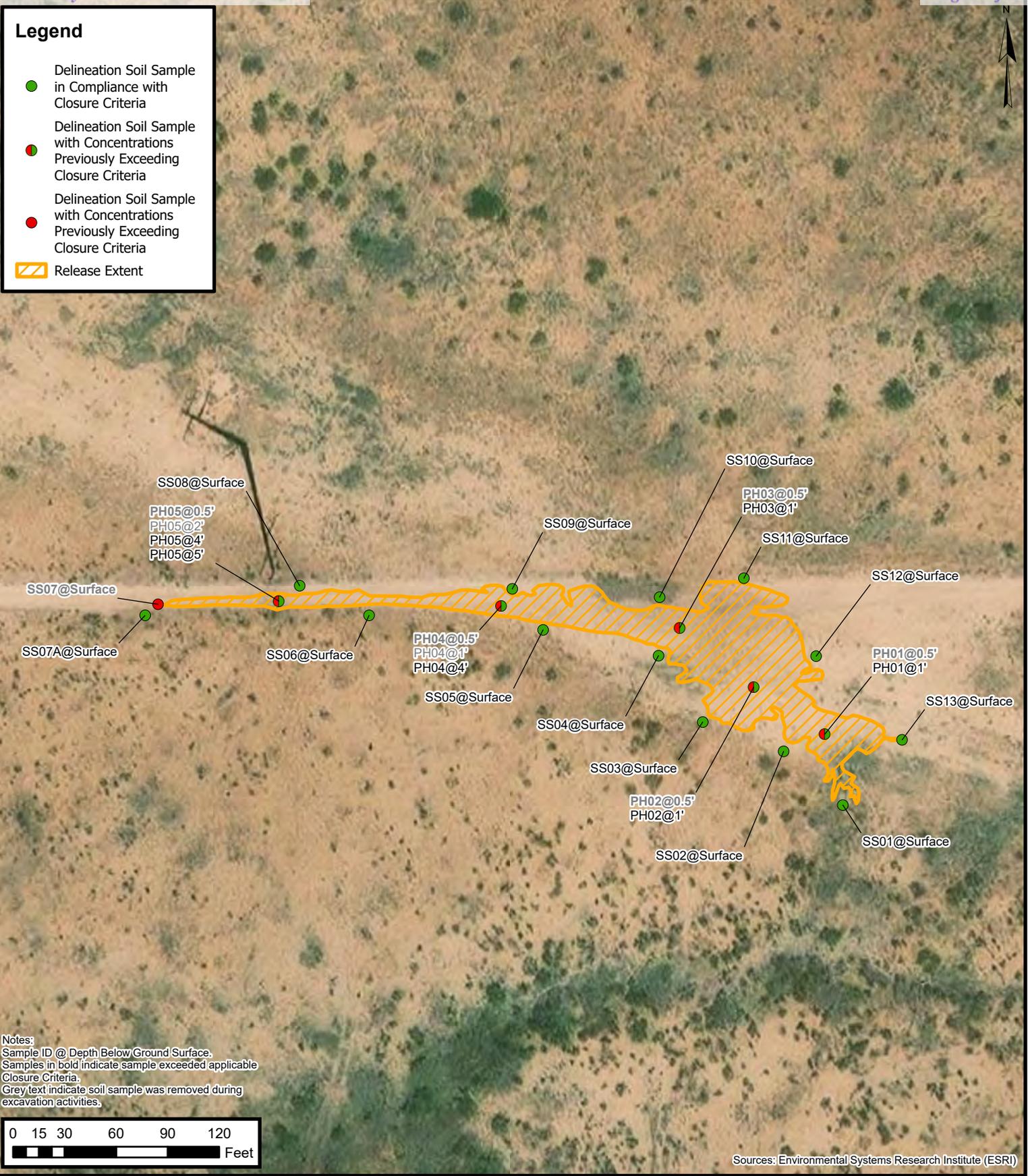


Site Receptor Map
 XTO Energy, Inc
 JRU DI 8 Substation (Illegal Dump)
 Incident Number: nAPP2524549272
 Unit C, Section 02, T 23S, R 30E
 Eddy County, New Mexico

FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Release Extent



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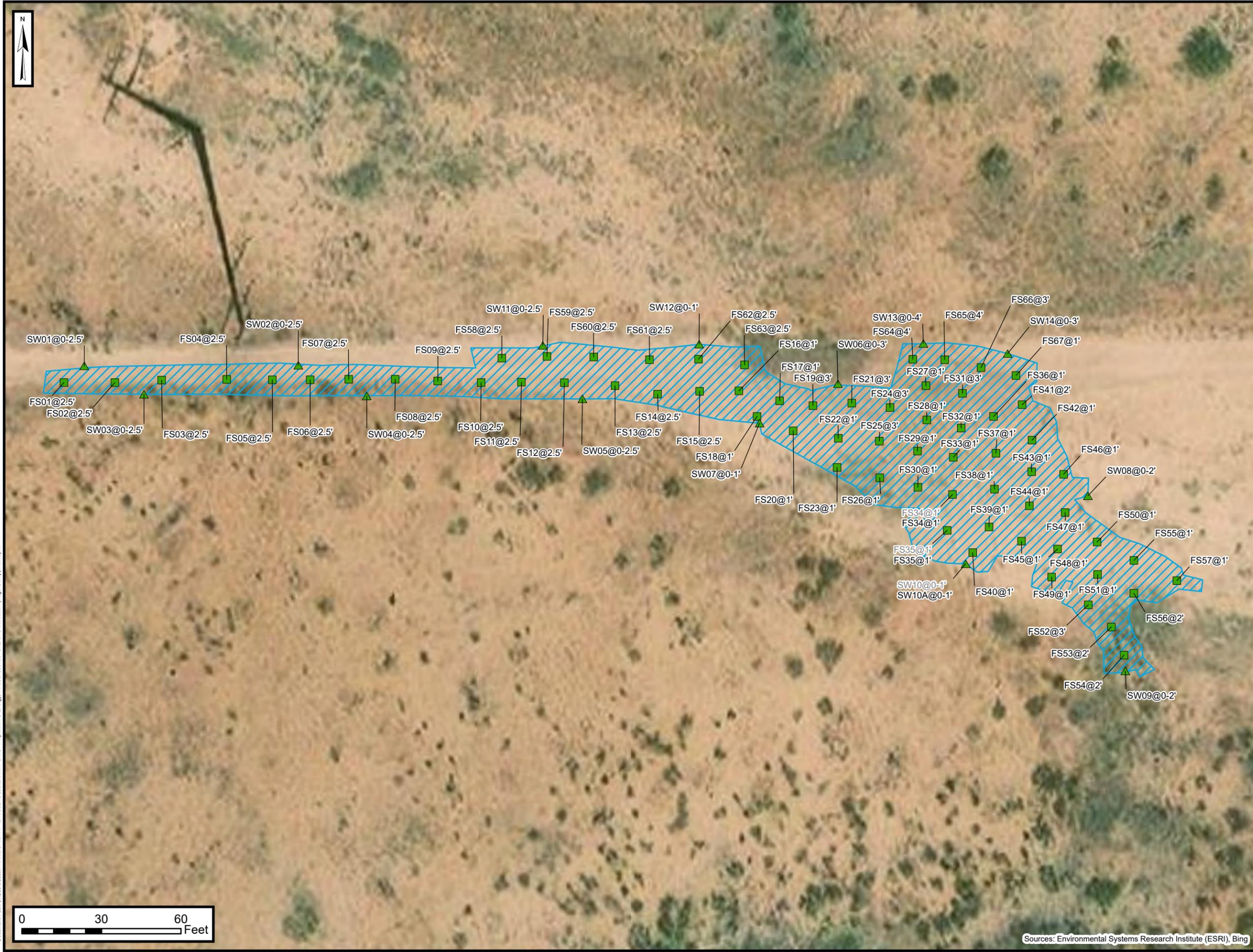


ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants

Delineation Soil Sample Locations

XTO Energy, Inc
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 Unit C, Section 02, T 23S, R 30E
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FIGURE
2



Legend

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with Closure Criteria
- ▨ Excavation Extent

Excavation Soil Sample Locations
 XTO Energy, Inc
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 Unit C, Section 02, T 23S, R 30E
 Eddy County, New Mexico

FIGURE 3



Sources: Environmental Systems Research Institute (ESRI), Bing

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TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRU DI 8 Substation (Illegal Dump)
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)
NMOCB Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
PH01	09/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,880
PH01	09/25/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH02	09/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,140
PH02	09/25/2025	1	<0.050	<0.300	<10.0	17.9	<10.0	17.9	17.9	48.0
PH03	09/25/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,000
PH03	09/25/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
PH04	09/25/2025	0.5	<0.050	<0.300	<10.0	413	78.7	413	492	32.0
PH04	09/25/2025	1	<0.050	<0.300	<10.0	337	59.1	337	396	48.0
PH04	09/25/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	09/25/2025	0.5	<0.050	<0.300	<10.0	140	20.7	140	161	64.0
PH05	09/25/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
PH05	09/25/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
PH05	09/25/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS01	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS02	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS03	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS04	09/25/2025	Surface	<0.050	<0.300	<10.0	10.2	<10.0	10.2	10.2	48.0
SS05	09/25/2025	Surface	<0.050	<0.300	<10.0	13.8	<10.0	13.8	13.8	<16.0
SS06	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS07	09/25/2025	Surface	<0.050	<0.300	<10.0	121	33.6	121	155	32.0
SS07A	11/18/2025	Surface	<0.00199	<0.00398	<50.1	74.5	<50.1	74.5	74.5	19.9
SS08	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS09	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS10	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS11	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SS12	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS13	09/25/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Confirmation Soil Samples										
FS01	11/18/2025	2.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	<10.1
FS02	11/18/2025	2.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	11.0
FS03	11/18/2025	2.5	<0.00199	<0.00398	<49.6	<49.6	<49.6	<49.6	<49.6	<9.96
FS04	11/18/2025	2.5	<0.00200	<0.00399	<50.3	<50.3	<50.3	<50.3	<50.3	15.2
FS05	11/18/2025	2.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	<9.92
FS06	11/18/2025	2.5	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	11.5
FS07	11/18/2025	2.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	<9.94



**TABLE 1
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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
FS08	11/18/2025	2.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	<9.96
FS09	11/18/2025	2.5	<0.00200	<0.00399	<49.6	<49.6	<49.6	<49.6	<49.6	<9.98
FS10	11/18/2025	2.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	<10.0
FS11	11/18/2025	2.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	<9.94
FS12	11/18/2025	2.5	<0.00201	<0.00402	<50.1	<50.1	<50.1	<50.1	<50.1	<9.96
FS13	11/18/2025	2.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	10.8
FS14	11/18/2025	2.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	<9.92
FS15	11/18/2025	2.5	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	<9.94
FS16	11/18/2025	1	<0.00202	<0.00403	<50.2	<50.2	<50.2	<50.2	<50.2	<9.92
FS17	11/18/2025	1	<0.00202	<0.00403	<49.7	<49.7	<49.7	<49.7	<49.7	145
FS18	11/18/2025	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	11.0
FS19	11/20/2025	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	29.6
FS20	11/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
FS21	11/20/2025	3	<0.00199	<0.00398	<49.8	<49.8	67.9	<49.8	67.9	381
FS22	11/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS23	11/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS24	11/20/2025	3	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	150
FS25	11/20/2025	3	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	302
FS26	11/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS27	11/20/2025	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	349
FS28	11/20/2025	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	101.0
FS29	11/20/2025	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	19.9
FS30	11/20/2025	1	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	<9.98
FS31	11/21/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS32	11/20/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	59.1
FS33	11/20/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	18.3
FS34	11/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS34	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS35	11/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS35	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS36	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS37	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS38	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS39	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRUI 8 Substation (Illegal Dump)
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
FS40	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS41	11/21/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS42	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS43	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS44	11/21/2025	1	<0.050	<0.300	<10.0	64.0	14.2	64.0	78.2	240
FS45	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS46	11/21/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS47	11/20/2025	1	<0.00200	<0.00399	<50.1	<50.1	<50.1	<50.1	<50.1	28.6
FS48	11/21/2025	1	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	96.0
FS49	11/20/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	142
FS50	11/20/2025	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	36.6
FS51	11/20/2025	1	<0.00199	<0.00398	<50.2	<50.2	<50.2	<50.2	<50.2	555.0
FS52	11/20/2025	3	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	78.8
FS53	11/21/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS54	11/21/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS55	11/20/2025	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	179
FS56	11/21/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
FS57	11/20/2025	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	147
FS58	11/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS59	11/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS60	11/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS61	11/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS62	11/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS63	11/24/2025	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS64	11/24/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS65	11/24/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS66	11/24/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS67	11/24/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
SW01	11/18/2025	0-2.5	<0.00200	<0.00399	<49.7	<49.7	<49.7	<49.7	<49.7	17.9
SW01A	11/19/2025	0-2.5	<0.050	<0.300	<10.0	12.8	<10.0	12.8	12.8	32.0
SW02	11/18/2025	0-2.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	<9.92
SW03	11/18/2025	0-2.5	<0.00202	<0.00403	<49.8	<49.8	<49.8	<49.8	<49.8	60.2
SW04	11/18/2025	0-2.5	<0.00200	<0.00401	<49.6	<49.6	<49.6	<49.6	<49.6	25.0
SW05	11/19/2025	0-2.5	<0.050	<0.300	<10.0	29.1	10.1	29.1	39.2	16.0



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
JRUI 8 Substation (Illegal Dump)
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)
NMOCDC Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW06	11/21/2025	0-3	<0.050	<0.300	<10.0	41.0	<10.0	41.0	41	224
SW07	11/21/2025	0-1	<0.050	<0.300	<10.0	27.9	<10.0	27.9	27.9	32.0
SW08	11/21/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW09	11/21/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336.0
SW10	11/21/2025	0-1	<0.050	<0.300	<10.0	49.8	<10.0	49.8	49.8	704
SW10A	11/25/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW11	11/24/2025	0-2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW12	11/24/2025	0-1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW13	11/24/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW14	11/24/2025	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
Backfill Soil Samples										
BF01	11/24/2025	Surface	<0.050	<0.300	<10.0	38.5	20.0	38.5	58.5	288
BF02	11/24/2025	Surface	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCDC: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCDC 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

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4387		WELL TAG ID NO.		OSE FILE NO(S). C-4387		
	WELL OWNER NAME(S) XTO ENERGY, INC				PHONE (OPTIONAL) 432-682-8873		
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Road				CITY Midland	STATE ZIP Texas 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 20	SECONDS 46.608	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	-103	50	9.297	W	* DATUM REQUIRED: WGS 84
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Site located at 32.346, -103.835 Eddy County, New Mexico (Section 36, Township 22S, Range 30E NMPM Eddy County)							

2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1664	NAME OF LICENSED DRILLER Cascade Drilling LP			NAME OF WELL DRILLING COMPANY Cascade Drilling LP			
	DRILLING STARTED 12/16/2019	DRILLING ENDED 12/16/2019	DEPTH OF COMPLETED WELL (FT) 110	BORE HOLE DEPTH (FT) 110	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 checked="" 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: Sonic							
	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						
				NO CASING IN HOLE				

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				
	0	110	6	Native cuttings		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2



APPENDIX B

Land Access References



NMSLO Cultural Resources Cover Sheet

Survey Complete Form

To: Cultural Resources Office, New Mexico State Land Office, Santa Fe, New Mexico

Re: Proposed "XTO's JRU DI 8 Substation Illegal Dump Remediation" project

Notification of Intent to Survey ID: N-20250905-002822

Cultural Resource Survey

NMCRIS Activity No.: 159520

Findings: Negative

Have avoidance and protection Measures been devised? Yes

Comments: The NMCRIS and BLM records checks did not reveal any previously recorded sites within or within 100' of the inventory area. During the current inventory, one IO, a solder dot tin can, was encountered within the previously surveyed area. As no additional cultural material, features, or evidence thereof was observed during the pedestrian inventory, BCA recommends a finding of No Historic Properties Affected with no further archaeological work.

Submitted on: 9/19/2025 at 2:29 PM MDT

Proposed Project Details

Permitted Cultural Consultant Name: Beaver Creek Archaeology

Permitted Cultural Consultant Phone Number:
(701) 663 - 5521

Permitted Cultural Consultant Email Address:
rhanley@bcarch.org

Ensolum on behalf of XTO has contracted Beaver Creek Archaeology to conduct a cultural resources survey for a proposed project "XTO's JRU DI 8 Substation Illegal Dump Remediation" located on New Mexico State Trust Lands in T23S R30E S2; T22S R30E S35 in Eddy. The survey is estimated to begin on 09/05/2025. The total acreage of the proposed project area is 6.45. The Lead Agency for this project is BLM.

NMSLO Administrative Use Only:

NMSLO Lease Number: _____

Lease Analyst: _____

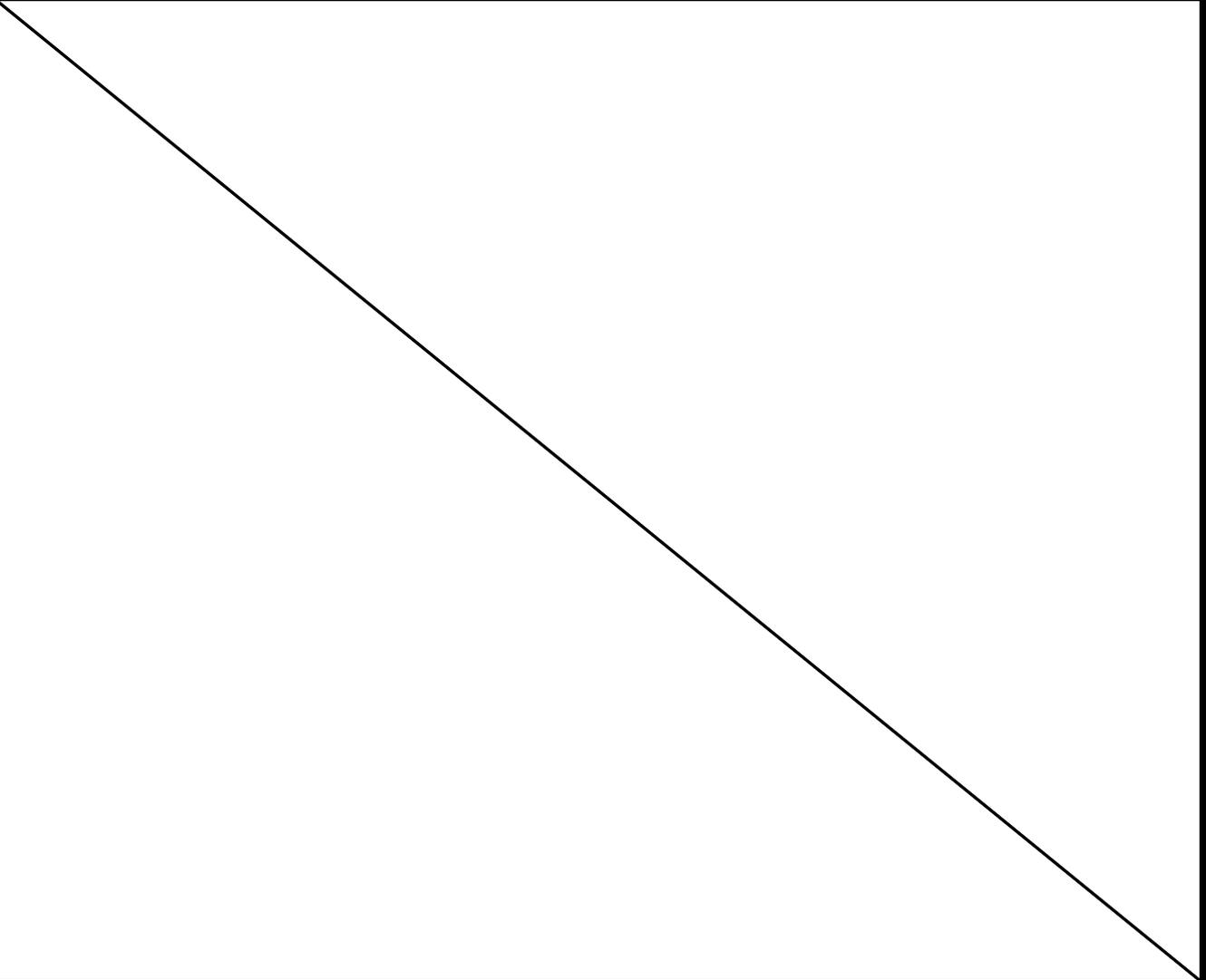


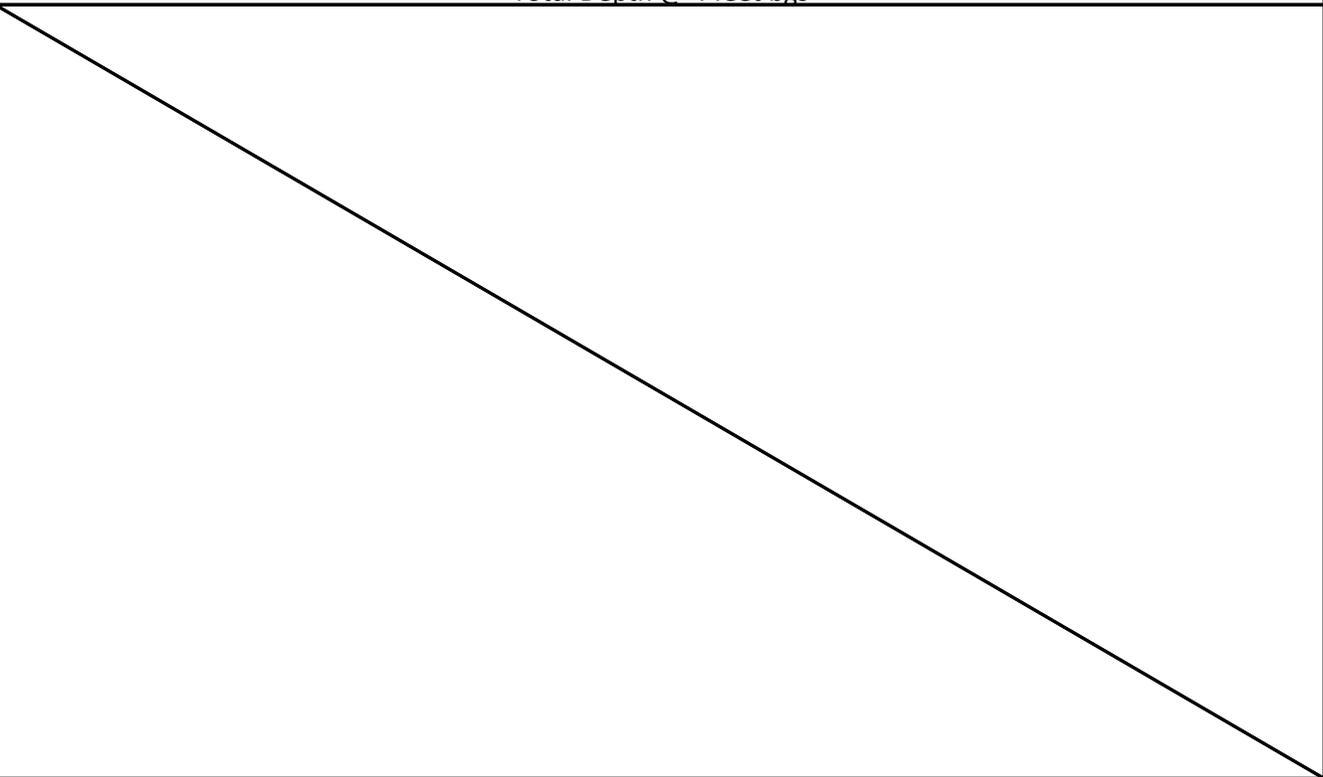
APPENDIX C

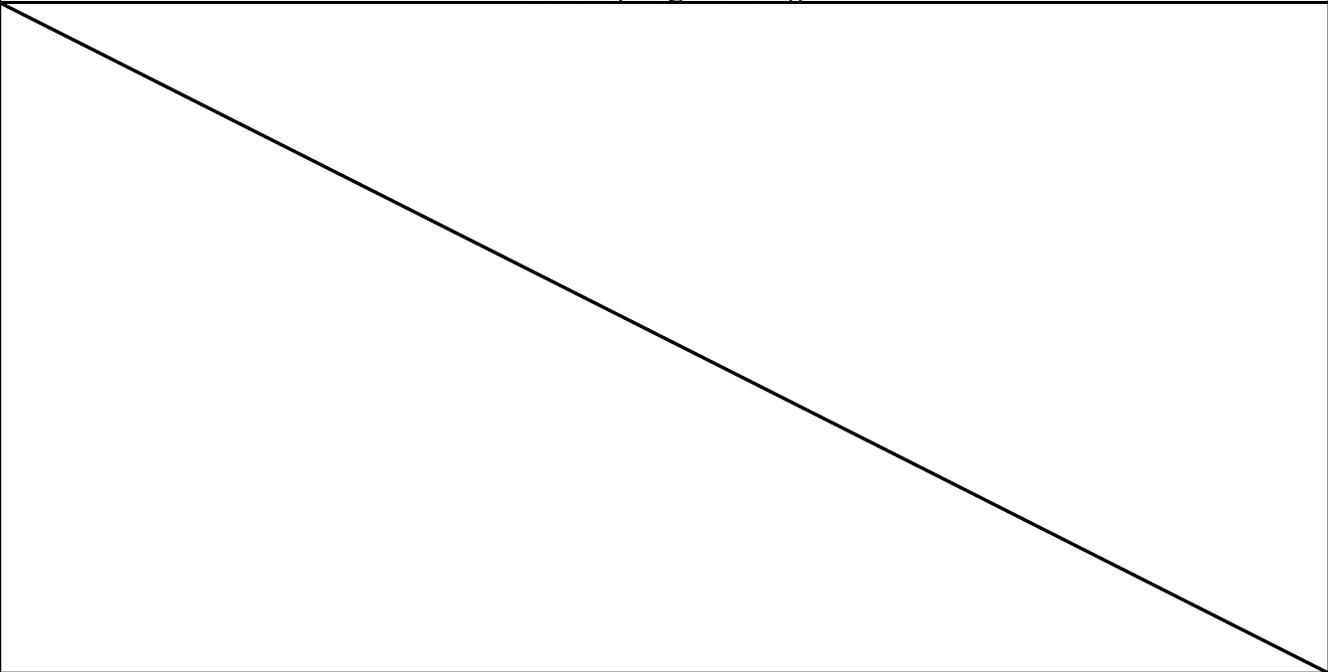
Lithologic Soil Sampling Logs

		Sample Name: PH01		Date: 9-25-2025					
		Site Name: JRU DI 8 Substation (Illegal Dump)							
		Incident Number: nAPP2524549272							
		Job Number: 03C1558733							
LITHOLOGIC / SOIL SAMPLING LOG									
Coordinates: 32.341110, -103.854378			Logged By: Evan Roe		Method: Backhoe				
			Hole Diameter: 2ft		Total Depth: 1ft				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
Dry	3976	2.2	Y	PH01	0.5	0	SM	(0-1') SAND. Brown. Uniform. Staining. Weak odor.	
Dry	<156	1.8	N	PH01	1	1		(@1') No staining or odor.	
Total Depth @ 1-foot bgs									

					Sample Name: PH02		Date: 9-25-2025	
					Site Name: JRU DI 8 Substation (Illegal Dump)			
					Incident Number: nAPP2524549272			
					Job Number: 03C1558733			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Evan Roe		Method: Backhoe	
Coordinates: 32.341186, -103.854511					Hole Diameter: 2ft		Total Depth: 1ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	1886	1.3	Y	PH02	0.5	0	SM	(0-1') SAND. Brown. Uniform. Staining. No odor.
Dry	<156	0.7	N	PH02	1	1		(@1') No staining or odor.
Total Depth @ 1-foot bgs								
<div style="border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black; width: 100%; height: 100%; position: relative;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black;"></div> </div>								

					Sample Name: PH03		Date: 9-25-2025	
					Site Name: JRU DI 8 Substation (Illegal Dump)			
					Incident Number: nAPP2524549272			
					Job Number: 03C1558733			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Evan Roe		Method:	
Coordinates: 32.341282, -103.854650					Hole Diameter: 2ft		Total Depth: 1ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Dry	3483	1.0	Y	PH03	0.5	0	SC	(0-1') CLAYEY SAND. Brown. Uniform. Staining. No odor.
Dry	<156	1.3	N	PH03	1	1		(@1') No staining or odor.
Total Depth @ 1-foot bgs								
								

							Sample Name: PH04		Date: 9-25-2025	
							Site Name: JRU DI 8 Substation (Illegal Dump)			
							Incident Number: nAPP2524549272			
							Job Number: 03C1558733			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Evan Roe		Method: Backhoe	
Coordinates: 32.341321, -103.854986							Hole Diameter: 2ft		Total Depth: 4ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
Drv	<156	36.3	Y	PH04	0.5	0	SM	(0-1') SAND. Brown. Fine. Uniform with stones. Staining. Strong odor. (@1') No staining.		
Drv	<156	90.7	N	PH04	1	1				
Drv	<156	16.5	N		2	2	CCHE	(1-4') CALICHE. Light Brown to light grey. Mostly fine with small stones. No staining. Weak odor.		
Drv	<156	14.8	N		3	3				
Drv	<156	4.1	N	PH04	4	4				
Total Depth @ 4 feet bgs										
										

					Sample Name: PH05		Date: 9-25-2025	
					Site Name: JRU DI 8 Substation (Illegal Dump)			
					Incident Number: nAPP2524549272			
					Job Number: 03C1558733			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Evan Roe		Method: Backhoe	
Coordinates: 32.341332, -103.855405					Hole Diameter: 2ft		Total Depth: 5ft	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor for chlorides is included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
Drv	<156	198.1	N	PH05	0.5	0	SM	(0-2') SAND. Brown. Fine. Uniform. No staining. Strong odor.
Drv	<156	50.2	N		1	1		
Drv	<156	22.2	N	PH05	2	2		(2-3') SAND. Brown. Fine. Uniform with stones. No staining. Mild odor.
Drv	<156	18.1	N		3	3		(3-5') SAND. Brown. Fine. Uniform with stones. No staining. Weak odor.
Drv	<156	6.1	N	PH05	4	4		
Drv	<156	4.9	N	PH05	5	5		
Total Depth @ 5 feet bgs								
								



APPENDIX D
Photographic Log



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 29, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH04 0.5' (H256041-01)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65	GC-NC	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND					GC-NC	

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 70.4-141

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	09/26/2025	ND	432	108	400	3.77		

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	09/27/2025	ND	194	96.8	200	1.32		
DRO >C10-C28*	413	10.0	09/27/2025	ND	204	102	200	5.34		
EXT DRO >C28-C36	78.7	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 95.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 98.4 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH04 1' (H256041-02)

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	09/26/2025	ND	1.92	95.9	2.00	0.925	
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 70.4-141

Chloride, SM4500CI-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	09/26/2025	ND	432	108	400	3.77	

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	09/27/2025	ND	194	96.8	200	1.32	
DRO >C10-C28*	337	10.0	09/27/2025	ND	204	102	200	5.34	
EXT DRO >C28-C36	59.1	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.5 % 39.9-141

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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH04 4' (H256041-03)

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	09/26/2025	ND	1.92	95.9	2.00	0.925	
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 70.4-141

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	09/26/2025	ND	432	108	400	3.77	

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	09/26/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 85.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.4 % 39.9-141

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

Company Name: Ensolum, LLC		BILL TO		P.O. #:		ANALYSIS REQUEST	
Project Manager: Tracy Hillard		Company: XTO Energy, Inc		Address: 3104 E Greene St			
Address: 601 N Marientfeld Street, Suite 400		Attn: Colton Brown		City: Carlsbad			
City: Midland		State: TX		Zip: 79701			
Phone #: 575-937-3906		Fax #: 3104 E Greene St		State: NM		Zip: 88220	
Project #: 03C1558733		Project Owner: XTO		City: Carlsbad			
Project Name: JRU DI 8 Illegal Dump		-SPILLS		State: NM		Zip: 88220	
Project Location: 32.3413056, -103.8543611		Phone #:		Fax #:			
Sampler Name: Evan Roe		FOR LAB USE ONLY		PRESERV.		SAMPLING	

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015 M/D	BTEX 8021B	Chloride SM4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
1351041		PH 04	G	1	✓						09/25/2025	1050	✓	✓	✓
		PH 04	G	1	✓						09/25/2025	1059	✓	✓	✓
		PH 04	G	1	✓						09/25/2025	1120	✓	✓	✓

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Relinquished By: <i>Ben H</i>	Date: 09/26/25	Received By: <i>Tracy Hillard</i>	Date: 09/26/25
Relinquished By: <i>Ben H</i>	Date: 09/26/25	Received By: <i>Tracy Hillard</i>	Date: 09/26/25
Delivered By: (Circle One) <i>Tracy Hillard</i>	Observed Temp. °C: 5.85	Sample Condition: Cool Intact	Checked By: <i>PH</i>
Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25	Corrected Temp. °C: 4.17	Yes <input type="checkbox"/> No <input type="checkbox"/>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> 24h
Remarks: Incident Number: nAPP2524549272 Cost Center: 2109421001 GCFM: 48605000		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
All Results are emailed. Please provide Email address: <i>THillard@ensolum.com, KThomason@ensolum.com, Bbell@ensolum.com, TMorrissey@ensolum.com</i>		Bacteria (only) Sample Condition: Cool Intact	
		Observed Temp. °C	
		Corrected Temp. °C	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 29, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 11 SURFACE (H256042-01)

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	09/26/2025	ND	1.92	95.9	2.00	0.925	
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/26/2025	ND	416	104	400	3.92	

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	09/26/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.1 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 12 SURFACE (H256042-02)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 93.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.2 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 13 SURFACE (H256042-03)

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	09/26/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 88.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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

Page 1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC	P.O. #:
Project Manager: Tracy Hillard	Company: XTO Energy, Inc
Address: 601 N Marientfield Street, Suite 400	Attn: Colton Brown
City: Midland	Address: 3104 E Greene St
Phone #: 575-937-3906	City: Carlsbad
Fax #: 575-937-3906	State: NM Zip: 88220
Project #: 03C1558733	Project Owner: XTO
Project Name: JRU DI 8 Illegal Dump	-SPILLS
Project Location: 32.3413056, -103.8543611	Phone #:
Sampler Name: Evan Roe	Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015 M/D	BTEX 8021B	Chloride SM4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
12	SS 11	Surface	G	1	✓							09/25/2025	1340	✓	✓	✓
3	SS 12	Surface	G	1	✓							09/25/2025	1341	✓	✓	✓
	SS 13	Surface	G	1	✓							09/25/2025	1342	✓	✓	✓

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Relinquished By: <i>Erin R</i>	Date: 09/12/25	Received By: <i>Tracy Hillard</i>
Relinquished By: <i>Tracy Hillard</i>	Date: 2:46	Received By: <i>Tracy Hillard</i>
Delivered By: (Circle One) <i>Tracy Hillard</i>	Observed Temp. °C: 110.9	Corrected Temp. °C: 4.1
Sampler - UPS - Bus - Other: FORM-006 R.3.6 02/12/25	Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	Checked By: <i>AD</i>
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Thermometer ID #140	Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
Cost Center: 2109421001	Correction Factor +0.3°C	Observed Temp. °C
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Incident Number: 0APP2524549272	Corrected Temp. °C
All Results are emailed. Please provide Email address: <i>thillard@ensolum.com, kthomason@ensolum.com, bbeill@ensolum.com, tmorrissey@ensolum.com</i>	Cost Center: 2109421001	
REMARKS:	Cost Center: 2109421001	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 29, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH05 0.5' (H256043-01)

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	09/26/2025	ND	1.92	95.9	2.00	0.925	
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/26/2025	ND	416	104	400	3.92	

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	09/26/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*	140	10.0	09/26/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36	20.7	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 91.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 98.2 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH05 2' (H256043-02)

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	09/26/2025	ND	1.92	95.9	2.00	0.925	
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/26/2025	ND	416	104	400	3.92	

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	09/26/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 91.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH05 4' (H256043-03)

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	09/26/2025	ND	1.92	95.9	2.00	0.925	
Toluene*	<0.050	0.050	09/26/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2025	ND	416	104	400	3.92	

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	09/26/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH05 5' (H256043-04)

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	09/27/2025	ND	1.92	95.9	2.00	0.925	
Toluene*	<0.050	0.050	09/27/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX	<0.300	0.300	09/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2025	ND	416	104	400	3.92	

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	09/26/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 80.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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

Company Name: Ensolum, LLC	P.O. #:	ANALYSIS REQUEST
Project Manager: Tracy Hillard	Company: XTO Energy, Inc	
Address: 601 N Marientfeld Street, Suite 400	Attn: Colton Brown	
City: Midland	Address: 3104 E Greene St	
Phone #: 575-937-3906	City: Carlsbad	
Fax #:	State: NM	
Project #: 03C1558733	Zip: 88220	
Project Name: JRU DI 8 Illegal Dump	Phone #:	
Project Location: 32.3413056, -103.8543611	Fax #:	
Sampler Name: Evan Roe		

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015 M/D	BTEX 8021B	Chloride SM4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
H921013	PH 05	0.5	G	1	✓							09/25/2025	1140	✓	✓	✓
		PH 05	G	1	✓							09/25/2025	1158	✓	✓	✓
		PH 05	G	1	✓							09/25/2025	1212	✓	✓	✓
		PH 05	G	1	✓							09/25/2025	1225	✓	✓	✓

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Relinquished By: [Signature]	Date: 09/26/25	Received By: [Signature]	Date: 09/26/25
Relinquished By: [Signature]	Date: 9-26-25	Received By: [Signature]	Date: 9-26-25
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25	Observed Temp. °C: 3.8 L	Corrected Temp. °C: 4.1 L	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Turnaround Time: 24h	Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C:
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	REMARKS: Incident Number: nAPP2524549272 Cost Center: 2109421001 GCFM: 48605000	Checked By: [Signature]
All Results are emailed. Please provide Email address: Hillard@ensolum.com, KThomason@ensolum.com BBeilli@ensolum.com, TMorrissey@ensolum.com			

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 29, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 01 SURFACE (H256044-01)

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	09/27/2025	ND	1.92	95.9	2.00	0.925	
Toluene*	<0.050	0.050	09/27/2025	ND	1.89	94.6	2.00	1.22	
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.84	92.1	2.00	1.65	
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.39	89.9	6.00	1.62	
Total BTEX	<0.300	0.300	09/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/26/2025	ND	416	104	400	3.92	

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	09/26/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 02 SURFACE (H256044-02)

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	09/27/2025	ND	1.92	95.9	2.00	0.925		
Toluene*	<0.050	0.050	09/27/2025	ND	1.89	94.6	2.00	1.22		
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.84	92.1	2.00	1.65		
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.39	89.9	6.00	1.62		
Total BTEX	<0.300	0.300	09/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/26/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/26/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/26/2025	ND						

Surrogate: 1-Chlorooctane 88.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.0 % 39.9-141

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 03 SURFACE (H256044-03)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 93.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.6 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 04 SURFACE (H256044-04)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	10.2	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 92.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 96.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 05 SURFACE (H256044-05)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	13.8	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 91.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.9 % 39.9-141

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 06 SURFACE (H256044-06)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 100 % 52.4-130

Surrogate: 1-Chlorooctadecane 104 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 07 SURFACE (H256044-07)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	121	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	33.6	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 89.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.5 % 39.9-141

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 08 SURFACE (H256044-08)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 98.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 101 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 09 SURFACE (H256044-09)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 91.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 93.8 % 39.9-141

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SS 10 SURFACE (H256044-10)

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	09/26/2025	ND	1.92	96.2	2.00	4.31		
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18		
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41		
Total BTEX	<0.300	0.300	09/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/26/2025	ND	416	104	400	3.92		

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	09/27/2025	ND	193	96.4	200	12.7		
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78		
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND						

Surrogate: 1-Chlorooctane 88.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.2 % 39.9-141

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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
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

Page 1 of 1

ANALYSIS REQUEST

Company Name: Ensolum, LLC	P.O. #:
Project Manager: Tracy Hillard	Company: XTO Energy, Inc
Address: 601 N Marientfeld Street, Suite 400	Attn: Colton Brown
City: Midland	Address: 3104 E Greene St
Phone #: 575-937-3906	City: Carlsbad
Project #: 03C1558733	State: NM Zip: 88220
Project Name: JRU DI 8 Illegal Dump	Project Owner: XTO
Project Location: 32.3413056, -103.8543611	SPILLS: -SPILLS
Sampler Name: Evan Roe	Phone #:
	Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)GRAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015 M/D	BTEX 8021B	Chloride SM4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H3500014	SS 01	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1315	✓	✓	✓
	SS 02	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1316	✓	✓	✓
	SS 03	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1317	✓	✓	✓
	SS 04	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1318	✓	✓	✓
	SS 05	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1319	✓	✓	✓
	SS 06	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1325	✓	✓	✓
	SS 07	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1326	✓	✓	✓
	SS 08	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1327	✓	✓	✓
	SS 09	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1328	✓	✓	✓
	SS 10	Surface	G	1	✓	✓	✓	✓	✓	✓	09/25/2025	1329	✓	✓	✓

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Relinquished By: *Evann* **Date:** 9/26/25 **Received By:** *Tracy Hillard*

Relinquished By: *Tracy Hillard* **Date:** 9/26/25 **Received By:** *Tracy Hillard*

Relinquished By: *Tracy Hillard* **Date:** 9/26/25 **Received By:** *Tracy Hillard*

Delivered By: *Tracy Hillard* **Observed Temp. °C:** 3.8 **Corrected Temp. °C:** 4.1

Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 29, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 09/26/25 11:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH01 0.5' (H256045-01)

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	09/26/2025	ND	1.92	96.2	2.00	4.31	
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	09/26/2025	ND	416	104	400	3.92	

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	09/27/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.9 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH01 1' (H256045-02)

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	09/26/2025	ND	1.92	96.2	2.00	4.31	
Toluene*	<0.050	0.050	09/26/2025	ND	1.94	96.8	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/26/2025	ND	1.94	97.0	2.00	4.18	
Total Xylenes*	<0.150	0.150	09/26/2025	ND	5.99	99.8	6.00	4.41	
Total BTEX	<0.300	0.300	09/26/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/26/2025	ND	416	104	400	3.92	

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	09/27/2025	ND	193	96.4	200	12.7	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	211	105	200	2.78	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 92.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 95.0 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH02 0.5' (H256045-03)

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	09/27/2025	ND	1.92	96.2	2.00	4.31	
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18	
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41	
Total BTEX	<0.300	0.300	09/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	09/26/2025	ND	416	104	400	3.92	

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	09/27/2025	ND	179	89.3	200	0.815	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	184	92.1	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 82.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.9 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH02 1' (H256045-04)

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	09/27/2025	ND	1.92	96.2	2.00	4.31	
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18	
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41	
Total BTEX	<0.300	0.300	09/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500CI-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	09/26/2025	ND	448	112	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	09/27/2025	ND	179	89.3	200	0.815	
DRO >C10-C28*	17.9	10.0	09/27/2025	ND	184	92.1	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 78.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.8 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH03 0.5' (H256045-05)

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	09/27/2025	ND	1.92	96.2	2.00	4.31	
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18	
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41	
Total BTEX	<0.300	0.300	09/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	09/26/2025	ND	448	112	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	09/27/2025	ND	179	89.3	200	0.815	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	184	92.1	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 82.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.4 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	09/26/2025	Sampling Date:	09/25/2025
Reported:	09/29/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: PH03 1' (H256045-06)

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	09/27/2025	ND	1.92	96.2	2.00	4.31	
Toluene*	<0.050	0.050	09/27/2025	ND	1.94	96.8	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/27/2025	ND	1.94	97.0	2.00	4.18	
Total Xylenes*	<0.150	0.150	09/27/2025	ND	5.99	99.8	6.00	4.41	
Total BTEX	<0.300	0.300	09/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-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	09/26/2025	ND	448	112	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	09/27/2025	ND	179	89.3	200	0.815	
DRO >C10-C28*	<10.0	10.0	09/27/2025	ND	184	92.1	200	0.729	
EXT DRO >C28-C36	<10.0	10.0	09/27/2025	ND					

Surrogate: 1-Chlorooctane 81.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 79.6 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
- 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

Page 1 of 1

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hilliard
 Address: 601 N Marland Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #: [blank]
 Project #: 03C1558733 Project Owner: XTO
 Project Name: JRU DI 8 Illegal Dump
 Project Location: 32.3413056, -103.8543611
 Sampler Name: Evan Roe

P.O. #: [blank]
 Company: XTO Energy, Inc
 Attn: Colton Brown
 Address: 3104 E Greene St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #: [blank]

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015 M/D	BTEX 8021B	Chloride SM4500	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						ACID/BASE:
		PH 01	0.5	G	1	✓						09/25/2025	945	✓	✓	✓
		PH 01	1	G	1	✓						09/25/2025	947	✓	✓	✓
		PH 02	0.5	G	1	✓						09/25/2025	1007	✓	✓	✓
		PH 02	1	G	1	✓						09/25/2025	1012	✓	✓	✓
		PH 03	0.5	G	1	✓						09/25/2025	1024	✓	✓	✓
		PH 03	1	G	1	✓						09/25/2025	1028	✓	✓	✓

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Relinquished By: *Bevan R* Date: 09/12/25 Received By: *Steven Wagers* Date: 9/14/25
 Relinquished By: *Bevan R* Date: 9/14/25 Received By: *Steven Wagers* Date: 9/14/25

Delivered By: (Circle One) *Steven Wagers* Observed Temp. °C: 3.80 Sample Condition: *Open*
 Corrected Temp. °C: 4.15 Cool Intact: Yes No
 Sampler - UPS - Bus - Other: Yes No

Turnaround Time: *Standard* *Rush*
 Thermometer ID #140 Correction Factor +0.3°C
 Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C: [blank] Corrected Temp. °C: [blank]

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 21, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 11/20/25 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/20/2025	Sampling Date:	11/19/2025
Reported:	11/21/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW01A 0-2.5' (H257300-01)

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	11/21/2025	ND	1.77	88.7	2.00	0.905	
Toluene*	<0.050	0.050	11/21/2025	ND	2.06	103	2.00	0.207	
Ethylbenzene*	<0.050	0.050	11/21/2025	ND	2.09	105	2.00	0.748	
Total Xylenes*	<0.150	0.150	11/21/2025	ND	6.47	108	6.00	0.404	
Total BTEX	<0.300	0.300	11/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2025	ND	432	108	400	3.77	

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	11/20/2025	ND	201	100	200	2.36	
DRO >C10-C28*	12.8	10.0	11/20/2025	ND	199	99.5	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	11/20/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/20/2025	Sampling Date:	11/19/2025
Reported:	11/21/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW05 0-2.5' (H257300-02)

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	11/21/2025	ND	1.77	88.7	2.00	0.905	
Toluene*	<0.050	0.050	11/21/2025	ND	2.06	103	2.00	0.207	
Ethylbenzene*	<0.050	0.050	11/21/2025	ND	2.09	105	2.00	0.748	
Total Xylenes*	<0.150	0.150	11/21/2025	ND	6.47	108	6.00	0.404	
Total BTEX	<0.300	0.300	11/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2025	ND	432	108	400	3.77	

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	11/20/2025	ND	201	100	200	2.36	
DRO >C10-C28*	29.1	10.0	11/20/2025	ND	199	99.5	200	3.19	
EXT DRO >C28-C36	10.1	10.0	11/20/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/20/2025	Sampling Date:	11/19/2025
Reported:	11/21/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 20 1' (H257300-03)

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	11/21/2025	ND	1.77	88.7	2.00	0.905	
Toluene*	<0.050	0.050	11/21/2025	ND	2.06	103	2.00	0.207	
Ethylbenzene*	<0.050	0.050	11/21/2025	ND	2.09	105	2.00	0.748	
Total Xylenes*	<0.150	0.150	11/21/2025	ND	6.47	108	6.00	0.404	
Total BTEX	<0.300	0.300	11/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	11/21/2025	ND	432	108	400	3.77	

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	11/20/2025	ND	201	100	200	2.36	
DRO >C10-C28*	<10.0	10.0	11/20/2025	ND	199	99.5	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	11/20/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 81.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/20/2025	Sampling Date:	11/19/2025
Reported:	11/21/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 22 1' (H257300-04)

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	11/21/2025	ND	1.77	88.7	2.00	0.905	
Toluene*	<0.050	0.050	11/21/2025	ND	2.06	103	2.00	0.207	
Ethylbenzene*	<0.050	0.050	11/21/2025	ND	2.09	105	2.00	0.748	
Total Xylenes*	<0.150	0.150	11/21/2025	ND	6.47	108	6.00	0.404	
Total BTEX	<0.300	0.300	11/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/21/2025	ND	432	108	400	3.77	

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	11/20/2025	ND	201	100	200	2.36	
DRO >C10-C28*	<10.0	10.0	11/20/2025	ND	199	99.5	200	3.19	
EXT DRO >C28-C36	<10.0	10.0	11/20/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.8 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/20/2025	Sampling Date:	11/19/2025
Reported:	11/21/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 23 1' (H257300-05)

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	11/21/2025	ND	1.77	88.7	2.00	0.905	
Toluene*	<0.050	0.050	11/21/2025	ND	2.06	103	2.00	0.207	
Ethylbenzene*	<0.050	0.050	11/21/2025	ND	2.09	105	2.00	0.748	
Total Xylenes*	<0.150	0.150	11/21/2025	ND	6.47	108	6.00	0.404	
Total BTEX	<0.300	0.300	11/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2025	ND	432	108	400	3.77	

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	11/20/2025	ND	186	92.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	11/20/2025	ND	184	92.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/20/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.1 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/20/2025	Sampling Date:	11/19/2025
Reported:	11/21/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 26 1' (H257300-06)

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	11/21/2025	ND	1.77	88.7	2.00	0.905	
Toluene*	<0.050	0.050	11/21/2025	ND	2.06	103	2.00	0.207	
Ethylbenzene*	<0.050	0.050	11/21/2025	ND	2.09	105	2.00	0.748	
Total Xylenes*	<0.150	0.150	11/21/2025	ND	6.47	108	6.00	0.404	
Total BTEX	<0.300	0.300	11/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/21/2025	ND	432	108	400	3.77	

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	11/20/2025	ND	186	92.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	11/20/2025	ND	184	92.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/20/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.4 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/20/2025	Sampling Date:	11/19/2025
Reported:	11/21/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 34 1' (H257300-07)

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	11/20/2025	ND	2.04	102	2.00	4.00	
Toluene*	<0.050	0.050	11/20/2025	ND	1.99	99.6	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/20/2025	ND	1.91	95.4	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/20/2025	ND	5.81	96.9	6.00	2.90	
Total BTEX	<0.300	0.300	11/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2025	ND	432	108	400	3.77	

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	11/20/2025	ND	186	92.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	11/20/2025	ND	184	92.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/20/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.4 % 39.9-141

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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, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/20/2025	Sampling Date:	11/19/2025
Reported:	11/21/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 35 1' (H257300-08)

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	11/20/2025	ND	2.04	102	2.00	4.00	
Toluene*	<0.050	0.050	11/20/2025	ND	1.99	99.6	2.00	3.30	
Ethylbenzene*	<0.050	0.050	11/20/2025	ND	1.91	95.4	2.00	2.88	
Total Xylenes*	<0.150	0.150	11/20/2025	ND	5.81	96.9	6.00	2.90	
Total BTEX	<0.300	0.300	11/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2025	ND	432	108	400	3.77	

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	11/20/2025	ND	186	92.9	200	3.80	
DRO >C10-C28*	<10.0	10.0	11/20/2025	ND	184	92.2	200	1.83	
EXT DRO >C28-C36	<10.0	10.0	11/20/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 89.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 03C1558733 Project Owner: XTO
 Project Name: JRU DI 8 Illegal Dump
 Project Location: 32.3413056, -103.8543611
 Sampler Name: Evan Roe
 P.O. #:
 Company: XTO Energy, Inc
 Attn: Robert Woodall
 Address: 3104 E Greene St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015	BTEX 8021	Chloride SM4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
	SWD01A	0-2.5	C	✓	✓	✓	✓	✓	✓	11/19/2025	950	✓	✓	✓	
	SW05	0-2.5	C	✓	✓	✓	✓	✓	✓	11/19/2025	1245	✓	✓	✓	
	FS 20		C	✓	✓	✓	✓	✓	✓	11/19/2025	956	✓	✓	✓	
	FS 22		C	✓	✓	✓	✓	✓	✓	11/19/2025	1002	✓	✓	✓	
	FS 23		C	✓	✓	✓	✓	✓	✓	11/19/2025	1005	✓	✓	✓	
	FS 26		C	✓	✓	✓	✓	✓	✓	11/19/2025	1146	✓	✓	✓	
	FS 34		C	✓	✓	✓	✓	✓	✓	11/19/2025	1457	✓	✓	✓	
	FS 35		C	✓	✓	✓	✓	✓	✓	11/19/2025	1500	✓	✓	✓	

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Relinquished By: *[Signature]* Date: 11-20-25 Received By: *[Signature]* Date: 11-20-25
 Time: 14:20
 Relinquished By: *[Signature]* Date:
 Received By: *[Signature]* Date:
 Time:
 Turnaround Time:
 Standard Rush
 Thermometer ID #140 Correction Factor +0.3°C
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No Corrected Temp. °C

Delivered By: (Circle One) Observed Temp. °C 0.5
 Corrected Temp. °C 0.8
 Cooler Intact Yes No
 Sample Condition (Initials) *[Signature]*
 CHECKED BY: *[Signature]*
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Kihomason: Tmorrissey; Thillard; Jreich; Bbeilil @ensolum.com
 REMARKS:
 t Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 25, 2025

TRACY HILLARD

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 11/21/25 17:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 06 0-3' (H257364-01)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	41.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 68.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 64.7 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 07 0-1' (H257364-02)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	27.9	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 62.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 57.5 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 31 3' (H257364-03)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 63.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 58.9 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 42 1' (H257364-04)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 61.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 56.1 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 53 2' (H257364-05)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 61.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 55.7 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 54 2' (H257364-06)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 62.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 56.4 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 56 2' (H257364-07)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 69.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 63.8 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 34 1' (H257364-08)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 60.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 55.7 % 39.9-141

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 35 1' (H257364-09)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 70.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 64.4 % 39.9-141

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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 36 1' (H257364-10)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 64.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 59.2 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 37 1' (H257364-11)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 68.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 63.2 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 38 1' (H257364-12)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 63.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 58.7 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 41 2' (H257364-13)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2025	ND	400	100	400	3.92	

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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 64.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 58.8 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 43 1' (H257364-14)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/24/2025	ND	416	104	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	11/24/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 65.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 59.8 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 46 1' (H257364-15)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/24/2025	ND	416	104	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	11/25/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/25/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/25/2025	ND					

Surrogate: 1-Chlorooctane 63.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 58.1 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 08 0-2' (H257364-16)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/24/2025	ND	416	104	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	11/25/2025	ND	180	90.1	200	0.773	
DRO >C10-C28*	<10.0	10.0	11/25/2025	ND	175	87.7	200	0.369	
EXT DRO >C28-C36	<10.0	10.0	11/25/2025	ND					

Surrogate: 1-Chlorooctane 63.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 58.4 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 39 1' (H257364-17)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/24/2025	ND	416	104	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	11/24/2025	ND	192	95.9	200	3.40	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	188	94.2	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 72.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 67.9 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 40 1' (H257364-18)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2025	ND	416	104	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	11/24/2025	ND	192	95.9	200	3.40	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	188	94.2	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 69.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 64.9 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 44 1' (H257364-19)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/24/2025	ND	416	104	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	11/24/2025	ND	192	95.9	200	3.40	
DRO >C10-C28*	64.0	10.0	11/24/2025	ND	188	94.2	200	0.802	
EXT DRO >C28-C36	14.2	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 73.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.2 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 45 1' (H257364-20)

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	11/24/2025	ND	2.05	103	2.00	2.67	
Toluene*	<0.050	0.050	11/24/2025	ND	2.13	106	2.00	0.0249	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.02	101	2.00	2.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	6.07	101	6.00	1.76	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/24/2025	ND	416	104	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	11/24/2025	ND	192	95.9	200	3.40	
DRO >C10-C28*	<10.0	10.0	11/24/2025	ND	188	94.2	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 71.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 67.3 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 48 1' (H257364-21)

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	11/24/2025	ND	2.18	109	2.00	2.04	
Toluene*	<0.050	0.050	11/24/2025	ND	2.16	108	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.27	113	2.00	7.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	7.08	118	6.00	8.02	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/24/2025	ND	416	104	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	11/24/2025	ND	192	95.9	200	3.40	
DRO >C10-C28*	10.6	10.0	11/24/2025	ND	188	94.2	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 71.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 66.8 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 10 0-1' (H257364-22)

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	11/24/2025	ND	2.18	109	2.00	2.04	
Toluene*	<0.050	0.050	11/24/2025	ND	2.16	108	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.27	113	2.00	7.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	7.08	118	6.00	8.02	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	11/24/2025	ND	416	104	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	11/24/2025	ND	192	95.9	200	3.40	
DRO >C10-C28*	19.8	10.0	11/24/2025	ND	188	94.2	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	11/24/2025	ND					

Surrogate: 1-Chlorooctane 75.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.2 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/21/2025	Sampling Date:	11/21/2025
Reported:	11/25/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 09 0-2' (H257364-23)

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	11/24/2025	ND	2.18	109	2.00	2.04	
Toluene*	<0.050	0.050	11/24/2025	ND	2.16	108	2.00	4.28	
Ethylbenzene*	<0.050	0.050	11/24/2025	ND	2.27	113	2.00	7.11	
Total Xylenes*	<0.150	0.150	11/24/2025	ND	7.08	118	6.00	8.02	
Total BTEX	<0.300	0.300	11/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/24/2025	ND	416	104	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	11/25/2025	ND	192	95.9	200	3.40	
DRO >C10-C28*	<10.0	10.0	11/25/2025	ND	188	94.2	200	0.802	
EXT DRO >C28-C36	<10.0	10.0	11/25/2025	ND					

Surrogate: 1-Chlorooctane 76.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.6 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 1

Company Name: Transchem LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Tracy Hilliard		Address: 601 N Marland Blvd Ste 500 Suite 400		City: Mildred State: TX Zip: 79701		Company: XTO Energy Inc	
Phone #: 575 937 3906 Fax #:		Project #: 03C1556733 Project Owner: XTO		Attn: Robert Woodall		Addl ass: 3104 E. Lucas St	
Project Name: VRu Pl & 11kgal Pump - Spills		Project Location: 32, 3413056, -103, 8543611		City: Carlsbad		State: NM Zip: 	
Sampler Name: Deven Roe		FOR LAB USE ONLY		Date: 11-21-25		Time: 9:45	
Lab I.D.:	Sample I.D.:	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	DATE	TIME
H257364	SW06	Depth	0-3	<input checked="" type="checkbox"/> GROUNDWATER	<input checked="" type="checkbox"/> ACID/BASE	11-21-25	9:45
	SW07		0-1	<input checked="" type="checkbox"/> WASTEWATER	<input checked="" type="checkbox"/> ICE / COOL		9:50
	F531		3	<input type="checkbox"/> SOIL	<input type="checkbox"/> OTHER		10:20
	F542		1	<input type="checkbox"/> OIL			10:25
	F553		2	<input type="checkbox"/> SLUDGE			10:45
	F554		2	<input type="checkbox"/> OTHER :			10:50
	F556		1	<input type="checkbox"/> ACID/BASE:			10:55
	F534		1	<input type="checkbox"/> ICE / COOL			11:40
	F535		1	<input type="checkbox"/> OTHER :			11:45
	F536		1	<input type="checkbox"/> OTHER :			11:50

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Relinquished By: **Deven Roe** Date: **11-21-25** Received By: **Robert Woodall** Date: **11-21-25**

Relinquished By: **Deven Roe** Date: **11-21-25** Received By: **Robert Woodall** Date: **11-21-25**

Delivered By: (Circle One) **UPS** Observed Temp. °C: **4.1** Sample Condition: Cool Intact

Sampler - UPS - Bus - Other: **UPS** Corrected Temp. °C: **4.84** Yes No

Checked By: **Robert Woodall** (Initials)

Remarks: **CC-2106421001 Standard Rush 24h**

Thermometer ID #140 **24h** Bacteria (only) Sample Condition: Cool Intact

Correction Factor +0.3°C Yes No Observed Temp. °C: **4.860500**

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 26, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 11/25/25 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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,

Mike Snyder For Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 58 2.5' (H257406-01)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/26/2025	ND	400	100	400	3.92	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 70.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 69.0 % 39.9-141

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 59 2.5' (H257406-02)

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	11/25/2025	ND	2.20	110	2.00	1.18		
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/26/2025	ND	400	100	400	3.92		

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	11/26/2025	ND	192	96.0	200	11.2		
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3		
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND						

Surrogate: 1-Chlorooctane 74.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.0 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 60 2.5' (H257406-03)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/26/2025	ND	400	100	400	3.92	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.9 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 61 2.5' (H257406-04)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/26/2025	ND	400	100	400	3.92	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 73.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 71.7 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 62 2.5' (H257406-05)

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	11/25/2025	ND	2.20	110	2.00	1.18		
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/26/2025	ND	400	100	400	3.92		

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	11/26/2025	ND	192	96.0	200	11.2		
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3		
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND						

Surrogate: 1-Chlorooctane 71.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 69.5 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 63 2.5' (H257406-06)

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	11/25/2025	ND	2.20	110	2.00	1.18		
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/26/2025	ND	400	100	400	3.92		

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	11/26/2025	ND	192	96.0	200	11.2		
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3		
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND						

Surrogate: 1-Chlorooctane 75.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.1 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 64 4' (H257406-07)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/26/2025	ND	400	100	400	3.92	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 71.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 65 4' (H257406-08)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/26/2025	ND	416	104	400	3.77	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 68.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 66.8 % 39.9-141

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 66 3' (H257406-09)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/26/2025	ND	416	104	400	3.77	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 76.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 73.3 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: FS 67 1' (H257406-10)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	11/26/2025	ND	416	104	400	3.77	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 79.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.8 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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Handwritten signature of Mike Snyder

Mike Snyder For 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

BILL TO

ANALYSIS REQUEST

1 of 1

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marientfeld Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 03C1558733 Project Owner: XTO
 Project Name: JRU DI 8 Illegal Dump
 Project Location: 32.3413056, -103.8543611
 Sampler Name: Evan Roe
 P.O. #:
 Company: XTO Energy, Inc
 Attn: Robert Woodall
 Address: 3104 E Greene St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:
 Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:
 Preserv: ACID/BASE: ICE / COOL OTHER:
 Analysis: TPH 8015, BTEX 8021, Chloride SM4500

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME						
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
HS7406	58	2.5	C	✓	✓	✓	✓	✓	✓	11/24/2025	1030	✓	✓	✓	✓	✓	✓	✓
	59	2.5	C	✓	✓	✓	✓	✓	✓	11/24/2025	1033	✓	✓	✓	✓	✓	✓	✓
	60	2.5	C	✓	✓	✓	✓	✓	✓	11/24/2025	1036	✓	✓	✓	✓	✓	✓	✓
	61	2.5	C	✓	✓	✓	✓	✓	✓	11/24/2025	1039	✓	✓	✓	✓	✓	✓	✓
	62	2.5	C	✓	✓	✓	✓	✓	✓	11/24/2025	1042	✓	✓	✓	✓	✓	✓	✓
	63	2.5	C	✓	✓	✓	✓	✓	✓	11/24/2025	1045	✓	✓	✓	✓	✓	✓	✓
	64	4	C	✓	✓	✓	✓	✓	✓	11/24/2025	1500	✓	✓	✓	✓	✓	✓	✓
	65	4	C	✓	✓	✓	✓	✓	✓	11/24/2025	1403	✓	✓	✓	✓	✓	✓	✓
	66	3	C	✓	✓	✓	✓	✓	✓	11/24/2025	1503	✓	✓	✓	✓	✓	✓	✓
	67	1	C	✓	✓	✓	✓	✓	✓	11/24/2025	1254	✓	✓	✓	✓	✓	✓	✓

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Relinquished By: *[Signature]*
 Date: 1/3/25
 Received By: *[Signature]*
 Date: 1/3/25
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Kthomason; Tmorrissey; Thillard; Jreich; Bbelli @ensolum.com
 Incident Number: nAPP2524549272
 Cost Center: 2109421001
 GCFM: 48605000

Delivered By: (Circle One) UPS - Bus - Other: FORM-006 R.3.6 02/12/25
 Observed Temp. °C: -0.6
 Corrected Temp. °C: -0.3
 Sample Condition: Cool Intact Yes No
 Checked By: *[Signature]*
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: 24.4

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 26, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 11/25/25 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 "Mike Snyder".

Mike Snyder For Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: BF 01 SURFACE (H257407-01)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/26/2025	ND	416	104	400	3.77	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	38.5	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	20.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 71.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 69.4 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: BF 02 SURFACE (H257407-02)

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	11/25/2025	ND	2.20	110	2.00	1.18		
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31		
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56		
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22		
Total BTEX	<0.300	0.300	11/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/26/2025	ND	416	104	400	3.77		

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	11/26/2025	ND	192	96.0	200	11.2		
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3		
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND						

Surrogate: 1-Chlorooctane 71.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 69.2 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Cardinal Laboratories

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Handwritten signature of Mike Snyder

Mike Snyder For 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

1281

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Tracy Hillard
 Address: 601 N Marland Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 575-937-3906 Fax #:
 Project #: 03C1558733 Project Owner: XTO
 Project Name: JRU DI 8 Illegal Dump
 Project Location: 32.3413056, -103.8543611
 Sampler Name: Evan Roe
 P.O. #:
 Company: XTO Energy, Inc
 Attn: Robert Woodall
 Address: 3104 E Greene St
 City: Carlsbad
 State: NM Zip: 88220
 Phone #:
 Fax #:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX 8021	Chloride SM4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
AB57407	BF 01	Surface	C	✓	✓	✓	✓	✓	✓	✓	11/24/2025	1600	✓	✓	✓	
	BF 02	Surface	C	✓	✓	✓	✓	✓	✓	✓	11/24/2025	1603	✓	✓	✓	

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Inquired By: *[Signature]*
 Date: 1/2/25
 Received By: *[Signature]*
 Date: 1/3/25
 Observed Temp. °C: -0.6
 Corrected Temp. °C: -0.3
 Sample Condition: Cool Intact Yes No
 Checked By: *[Signature]*
 Turnaround Time: Standard Rush
 Thermometer ID #140
 Correction Factor +0.3°C
 Incident Number: nAPP2524549272
 Cost Center: 2109421001
 GCFM: 48605000
 Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Khomason:
 Thomrissey:
 Thillard:
 Jreich:
 Bbeill @ensolum.com
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: 24



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 26, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 11/25/25 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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 "Mike Snyder".

Mike Snyder For Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 11 0-2.5' (H257408-01)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/26/2025	ND	416	104	400	3.77	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 76.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.1 % 39.9-141

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 12 0-2.5' (H257408-02)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/26/2025	ND	416	104	400	3.77	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 76.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 75.0 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 13 0-4' (H257408-03)

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	11/25/2025	ND	2.20	110	2.00	1.18	
Toluene*	<0.050	0.050	11/25/2025	ND	2.14	107	2.00	1.31	
Ethylbenzene*	<0.050	0.050	11/25/2025	ND	2.04	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	11/25/2025	ND	6.19	103	6.00	1.22	
Total BTEX	<0.300	0.300	11/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/26/2025	ND	416	104	400	3.77	

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	11/26/2025	ND	192	96.0	200	11.2	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 77.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.7 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/25/2025	Sampling Date:	11/24/2025
Reported:	11/26/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Tamara Oldaker
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 14 0-3' (H257408-04)

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	11/26/2025	ND	2.20	110	2.00	1.18		
Toluene*	<0.050	0.050	11/26/2025	ND	2.14	107	2.00	1.31		
Ethylbenzene*	<0.050	0.050	11/26/2025	ND	2.04	102	2.00	1.56		
Total Xylenes*	<0.150	0.150	11/26/2025	ND	6.19	103	6.00	1.22		
Total BTEX	<0.300	0.300	11/26/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	11/26/2025	ND	416	104	400	3.77		

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	11/26/2025	ND	192	96.0	200	11.2		
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	189	94.4	200	13.3		
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND						

Surrogate: 1-Chlorooctane 76.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 74.5 % 39.9-141

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
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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Handwritten signature of Mike Snyder

Mike Snyder For 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

1 of 1

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Tracy Hillard		Company: XTO Energy, Inc					
Address: 601 N Marrenfeld Street, Suite 400		Attn: Robert Woodall					
City: Midland		Address: 3104 E Greene St					
Phone #: 575-937-3906		City: Carlsbad					
Project #: 03C1558733		State: NM		Zip: 88220			
Project Name: JRU DI 8 Illegal Dump		Project Owner: XTO		State: NM		Zip: 88220	
Project Location: 32.3413056, -103.8543611		Phone #:					
Sampler Name: Evan Roe		Fax #:					

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH 8015	BTEX 8021	Chloride SM4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H257408		1	SW 11	0-2.5	C	✓					11/24/2025	1048	✓	✓	✓
		2	SW 12	0-2.5	C	✓					11/24/2025	1051	✓	✓	✓
		3	SW 13	0-4	C	✓					11/24/2025	1506	✓	✓	✓
		4	SW 14	0-3	C	✓					11/24/2025	1509	✓	✓	✓

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Relinquished By: *[Signature]* Date: 11-25-25 Received By: *[Signature]* Date: 11-25-25

Relinquished By: *[Signature]* Date: 11-25-25 Received By: *[Signature]* Date: 11-25-25

Delivered By: (Circle One) Observed Temp. °C: 10.4 Corrected Temp. °C: 10.3

Sampler - UPS - Bus - Other: FORM-006 R 3.6 02/12/25

Sample Condition: Cool Intact Yes No

Checked By: *[Signature]* (Initials)

Turnaround Time: Standard Rush 24h

Thermometer ID #140 Correction Factor +0.3°C

Bacteria (only) Sample Condition: Cool Intact Yes No

REMARKS: Incident Number: nAPP2524549272 Cost Center: 2109421001 GCFM: 48605000

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address: Kthomason, T Morrissey, Thillard, Jreich, Bbellill @ensolum.com

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

December 04, 2025

TRACY HILLARD
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: JRU DI 8 ILLEGAL DUMP

Enclosed are the results of analyses for samples received by the laboratory on 11/26/25 8:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. 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".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 TRACY HILLARD
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/26/2025	Sampling Date:	11/25/2025
Reported:	12/04/2025	Sampling Type:	Soil
Project Name:	JRU DI 8 ILLEGAL DUMP	Sampling Condition:	Cool & Intact
Project Number:	03C1558733	Sample Received By:	Alyssa Parras
Project Location:	XTO 32.3413056-103.8543611		

Sample ID: SW 10A 0-1 (H257434-01)

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	11/29/2025	ND	2.06	103	2.00	0.172	
Toluene*	<0.050	0.050	11/29/2025	ND	2.19	110	2.00	0.680	
Ethylbenzene*	<0.050	0.050	11/29/2025	ND	2.21	111	2.00	0.845	
Total Xylenes*	<0.150	0.150	11/29/2025	ND	6.83	114	6.00	1.03	
Total BTEX	<0.300	0.300	11/29/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/26/2025	ND	432	108	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	11/26/2025	ND	213	106	200	1.62	
DRO >C10-C28*	<10.0	10.0	11/26/2025	ND	204	102	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	11/26/2025	ND					

Surrogate: 1-Chlorooctane 93.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.1 % 39.9-141

Cardinal Laboratories

*=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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tracy Hillard
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 11/20/2025 2:13:40 PM

JOB DESCRIPTION

JRU DI 8 Illegal Dump
03C1558733

JOB NUMBER

890-9100-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.



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
11/20/2025 2:13:40 PM

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

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Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Laboratory Job ID: 890-9100-1
SDG: 03C1558733

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: JRU DI 8 Illegal Dump

Job ID: 890-9100-1

Job ID: 890-9100-1

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Job Narrative 890-9100-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/19/2025 9:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 01 (890-9100-1), FS 02 (890-9100-2), FS 03 (890-9100-3), FS 04 (890-9100-4), FS 05 (890-9100-5), FS 06 (890-9100-6), FS 07 (890-9100-7), FS 08 (890-9100-8), FS 09 (890-9100-9) and FS 10 (890-9100-10).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-124493 and analytical batch 880-124478 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS 01 (890-9100-1), FS 02 (890-9100-2), FS 03 (890-9100-3), FS 04 (890-9100-4), FS 05 (890-9100-5), (CCV 880-124478/2), (LCS 880-124493/1-A), (LCSD 880-124493/2-A), (890-9100-A-1-E MS) and (890-9100-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-124493 and analytical batch 880-124478 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-124469/2-A) and (LCSD 880-124469/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-9100-A-5-C MS) and (890-9100-A-5-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-124469 and analytical batch 880-124409 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 05 (890-9100-5), FS 06 (890-9100-6), FS 07 (890-9100-7), FS 08 (890-9100-8), FS 09 (890-9100-9), FS 10 (890-9100-10), (890-9100-A-5-C MS) and (890-9100-A-5-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-124468/2-A) and (LCSD 880-124468/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-9099-A-38-C MS). Evidence of matrix interferences is not obvious.

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Case Narrative

Client: Ensolum
Project: JRU DI 8 Illegal Dump

Job ID: 890-9100-1

Job ID: 890-9100-1 (Continued)

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Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: FS 01 (890-9100-1). 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.

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

Client Sample ID: FS 01

Lab Sample ID: 890-9100-1

Date Collected: 11/18/25 09:50

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 05:00	11/20/25 10:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 10:19	1
Ethylbenzene	<0.00200	U F1	0.00200	mg/Kg		11/20/25 05:00	11/20/25 10:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/20/25 05:00	11/20/25 10:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 10:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/20/25 05:00	11/20/25 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130	11/20/25 05:00	11/20/25 10:19	1
1,4-Difluorobenzene (Surr)	86		70 - 130	11/20/25 05:00	11/20/25 10:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/20/25 10:19	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			11/20/25 08:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		11/19/25 18:53	11/20/25 08:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/19/25 18:53	11/20/25 08:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/19/25 18:53	11/20/25 08:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	11/19/25 18:53	11/20/25 08:03	1
o-Terphenyl	133	S1+	70 - 130	11/19/25 18:53	11/20/25 08:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.1	U	10.1	mg/Kg			11/20/25 08:22	1

Client Sample ID: FS 02

Lab Sample ID: 890-9100-2

Date Collected: 11/18/25 09:53

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 09:13	11/20/25 10:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/20/25 09:13	11/20/25 10:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/20/25 09:13	11/20/25 10:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/20/25 09:13	11/20/25 10:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/20/25 09:13	11/20/25 10:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/20/25 09:13	11/20/25 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130	11/20/25 09:13	11/20/25 10:40	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

Client Sample ID: FS 02

Lab Sample ID: 890-9100-2

Date Collected: 11/18/25 09:53

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	84		70 - 130	11/20/25 09:13	11/20/25 10:40	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			11/20/25 10:40	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			11/20/25 08:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/25 18:53	11/20/25 08:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/25 18:53	11/20/25 08:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/25 18:53	11/20/25 08:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130	11/19/25 18:53	11/20/25 08:18	1
o-Terphenyl	116		70 - 130	11/19/25 18:53	11/20/25 08:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.0		10.1	mg/Kg			11/20/25 08:39	1

Client Sample ID: FS 03

Lab Sample ID: 890-9100-3

Date Collected: 11/18/25 09:56

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 09:13	11/20/25 11:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/20/25 09:13	11/20/25 11:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/20/25 09:13	11/20/25 11:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/20/25 09:13	11/20/25 11:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/20/25 09:13	11/20/25 11:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/20/25 09:13	11/20/25 11:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130	11/20/25 09:13	11/20/25 11:00	1
1,4-Difluorobenzene (Surr)	86		70 - 130	11/20/25 09:13	11/20/25 11:00	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			11/20/25 11:00	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			11/20/25 08:34	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

Client Sample ID: FS 03

Lab Sample ID: 890-9100-3

Date Collected: 11/18/25 09:56

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		11/19/25 18:53	11/20/25 08:34	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		11/19/25 18:53	11/20/25 08:34	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/19/25 18:53	11/20/25 08:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			11/19/25 18:53	11/20/25 08:34	1
o-Terphenyl	110		70 - 130			11/19/25 18:53	11/20/25 08:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96	mg/Kg			11/20/25 08:45	1

Client Sample ID: FS 04

Lab Sample ID: 890-9100-4

Date Collected: 11/18/25 09:59

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 09:13	11/20/25 11:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 09:13	11/20/25 11:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 09:13	11/20/25 11:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/20/25 09:13	11/20/25 11:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 09:13	11/20/25 11:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/20/25 09:13	11/20/25 11:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130			11/20/25 09:13	11/20/25 11:21	1
1,4-Difluorobenzene (Surr)	86		70 - 130			11/20/25 09:13	11/20/25 11:21	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			11/20/25 11:21	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			11/20/25 08:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3	mg/Kg		11/19/25 18:53	11/20/25 08:49	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3	mg/Kg		11/19/25 18:53	11/20/25 08:49	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3	mg/Kg		11/19/25 18:53	11/20/25 08:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			11/19/25 18:53	11/20/25 08:49	1
o-Terphenyl	104		70 - 130			11/19/25 18:53	11/20/25 08:49	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

Client Sample ID: FS 04

Lab Sample ID: 890-9100-4

Date Collected: 11/18/25 09:59

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.2		9.98	mg/Kg			11/20/25 08:51	1

Client Sample ID: FS 05

Lab Sample ID: 890-9100-5

Date Collected: 11/18/25 10:02

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 09:13	11/20/25 11:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/20/25 09:13	11/20/25 11:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/20/25 09:13	11/20/25 11:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/20/25 09:13	11/20/25 11:41	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/20/25 09:13	11/20/25 11:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/20/25 09:13	11/20/25 11:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	152	S1+	70 - 130			11/20/25 09:13	11/20/25 11:41	1
1,4-Difluorobenzene (Surr)	85		70 - 130			11/20/25 09:13	11/20/25 11:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/20/25 11:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/20/25 03:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 03:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		11/19/25 18:57	11/20/25 03:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 03:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130			11/19/25 18:57	11/20/25 03:12	1
o-Terphenyl	70		70 - 130			11/19/25 18:57	11/20/25 03:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92	mg/Kg			11/20/25 08:57	1

Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

Client Sample ID: FS 06

Lab Sample ID: 890-9100-6

Date Collected: 11/18/25 10:05

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 08:59	11/20/25 10:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/20/25 08:59	11/20/25 10:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/20/25 08:59	11/20/25 10:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/20/25 08:59	11/20/25 10:55	1
1,4-Difluorobenzene (Surr)	109		70 - 130	11/20/25 08:59	11/20/25 10:55	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/20/25 10:55	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			11/20/25 03:59	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		11/19/25 18:57	11/20/25 03:59	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		11/19/25 18:57	11/20/25 03:59	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/19/25 18:57	11/20/25 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130	11/19/25 18:57	11/20/25 03:59	1
o-Terphenyl	68	S1-	70 - 130	11/19/25 18:57	11/20/25 03:59	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.5		9.90	mg/Kg			11/20/25 09:14	1

Client Sample ID: FS 07

Lab Sample ID: 890-9100-7

Date Collected: 11/18/25 11:40

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 08:59	11/20/25 11:15	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:59	11/20/25 11:15	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:59	11/20/25 11:15	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/20/25 08:59	11/20/25 11:15	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:59	11/20/25 11:15	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/20/25 08:59	11/20/25 11:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/20/25 08:59	11/20/25 11:15	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

Client Sample ID: FS 07

Lab Sample ID: 890-9100-7

Date Collected: 11/18/25 11:40

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	11/20/25 08:59	11/20/25 11:15	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/20/25 11:15	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			11/20/25 04:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 04:14	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 04:14	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 04:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130	11/19/25 18:57	11/20/25 04:14	1
o-Terphenyl	71		70 - 130	11/19/25 18:57	11/20/25 04:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94	mg/Kg			11/20/25 09:20	1

Client Sample ID: FS 08

Lab Sample ID: 890-9100-8

Date Collected: 11/18/25 11:43

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 08:59	11/20/25 11:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/20/25 08:59	11/20/25 11:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/20/25 08:59	11/20/25 11:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/20/25 08:59	11/20/25 11:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/20/25 08:59	11/20/25 11:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/20/25 08:59	11/20/25 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	11/20/25 08:59	11/20/25 11:36	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/20/25 08:59	11/20/25 11:36	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/20/25 11:36	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/20/25 04:30	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

Client Sample ID: FS 08

Lab Sample ID: 890-9100-8

Date Collected: 11/18/25 11:43

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 04:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 04:30	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 04:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	57	S1-	70 - 130			11/19/25 18:57	11/20/25 04:30	1
o-Terphenyl	63	S1-	70 - 130			11/19/25 18:57	11/20/25 04:30	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.96	U	9.96	mg/Kg			11/20/25 09:26	1

Client Sample ID: FS 09

Lab Sample ID: 890-9100-9

Date Collected: 11/18/25 11:46

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 08:59	11/20/25 11:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 11:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 11:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/20/25 08:59	11/20/25 11:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 11:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/20/25 08:59	11/20/25 11:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			11/20/25 08:59	11/20/25 11:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130			11/20/25 08:59	11/20/25 11:56	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/20/25 11:56	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6	mg/Kg			11/20/25 04:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6	mg/Kg		11/19/25 18:57	11/20/25 04:45	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		11/19/25 18:57	11/20/25 04:45	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/19/25 18:57	11/20/25 04:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130			11/19/25 18:57	11/20/25 04:45	1
o-Terphenyl	74		70 - 130			11/19/25 18:57	11/20/25 04:45	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

Client Sample ID: FS 09

Lab Sample ID: 890-9100-9

Date Collected: 11/18/25 11:46

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			11/20/25 09:32	1

Client Sample ID: FS 10

Lab Sample ID: 890-9100-10

Date Collected: 11/18/25 11:49

Matrix: Solid

Date Received: 11/19/25 09:03

Sample Depth: 2.5

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		11/20/25 08:59	11/20/25 12:16	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:59	11/20/25 12:16	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:59	11/20/25 12:16	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/20/25 08:59	11/20/25 12:16	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:59	11/20/25 12:16	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/20/25 08:59	11/20/25 12:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	11/20/25 08:59	11/20/25 12:16	1
1,4-Difluorobenzene (Surr)	108		70 - 130	11/20/25 08:59	11/20/25 12:16	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			11/20/25 12:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/20/25 05:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 05:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 05:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	59	S1-	70 - 130	11/19/25 18:57	11/20/25 05:01	1
o-Terphenyl	66	S1-	70 - 130	11/19/25 18:57	11/20/25 05:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			11/20/25 09:38	1

Surrogate Summary

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

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)
890-9100-1	FS 01	152 S1+	86
890-9100-1 MS	FS 01	148 S1+	84
890-9100-1 MSD	FS 01	151 S1+	85
890-9100-2	FS 02	148 S1+	84
890-9100-3	FS 03	147 S1+	86
890-9100-4	FS 04	150 S1+	86
890-9100-5	FS 05	152 S1+	85
890-9100-6	FS 06	107	109
890-9100-6 MS	FS 06	101	108
890-9100-6 MSD	FS 06	102	101
890-9100-7	FS 07	107	104
890-9100-8	FS 08	105	105
890-9100-9	FS 09	108	104
890-9100-10	FS 10	106	108
LCS 880-124485/1-A	Lab Control Sample	105	106
LCS 880-124493/1-A	Lab Control Sample	147 S1+	86
LCSD 880-124485/2-A	Lab Control Sample Dup	102	103
LCSD 880-124493/2-A	Lab Control Sample Dup	151 S1+	85
MB 880-124485/5-A	Method Blank	101	101
MB 880-124493/5-A	Method Blank	134 S1+	79

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)
890-9099-A-38-C MS	Matrix Spike	102	131 S1+
890-9099-A-38-D MSD	Matrix Spike Duplicate	92	111
890-9100-1	FS 01	104	133 S1+
890-9100-2	FS 02	95	116
890-9100-3	FS 03	94	110
890-9100-4	FS 04	93	104
890-9100-5	FS 05	66 S1-	70
890-9100-5 MS	FS 05	76	69 S1-
890-9100-5 MSD	FS 05	64 S1-	69 S1-
890-9100-6	FS 06	61 S1-	68 S1-
890-9100-7	FS 07	64 S1-	71
890-9100-8	FS 08	57 S1-	63 S1-
890-9100-9	FS 09	69 S1-	74
890-9100-10	FS 10	59 S1-	66 S1-
LCS 880-124468/2-A	Lab Control Sample	17 S1-	24 S1-
LCS 880-124469/2-A	Lab Control Sample	11 S1-	13 S1-
LCSD 880-124468/3-A	Lab Control Sample Dup	17 S1-	23 S1-
LCSD 880-124469/3-A	Lab Control Sample Dup	19 S1-	13 S1-
MB 880-124468/1-A	Method Blank	110	111

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Surrogate Summary

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

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)
MB 880-124469/1-A	Method Blank	81	86

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: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-124485/5-A
Matrix: Solid
Analysis Batch: 124476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124485

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/20/25 08:59	11/20/25 10:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/20/25 08:59	11/20/25 10:33	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/20/25 08:59	11/20/25 10:33	1

Lab Sample ID: LCS 880-124485/1-A
Matrix: Solid
Analysis Batch: 124476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	0.100	0.1019		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1098		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-124485/2-A
Matrix: Solid
Analysis Batch: 124476

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09912		mg/Kg		99	70 - 130	4	35
Toluene	0.100	0.09578		mg/Kg		96	70 - 130	6	35
Ethylbenzene	0.100	0.1043		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2077		mg/Kg		104	70 - 130	6	35
o-Xylene	0.100	0.1107		mg/Kg		111	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-9100-6 MS
Matrix: Solid
Analysis Batch: 124476

Client Sample ID: FS 06
Prep Type: Total/NA
Prep Batch: 124485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1132		mg/Kg		113	70 - 130
Toluene	<0.00200	U	0.100	0.1108		mg/Kg		111	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

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

Lab Sample ID: 890-9100-6 MS

Client Sample ID: FS 06

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 124476

Prep Batch: 124485

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Result	Qualifier				
Ethylbenzene	<0.00200	U	0.100	0.1198		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2395		mg/Kg		120	70 - 130
o-Xylene	<0.00200	U	0.100	0.1236		mg/Kg		124	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-9100-6 MSD

Client Sample ID: FS 06

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 124476

Prep Batch: 124485

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U	0.100	0.09608		mg/Kg		96	70 - 130	16	35
Toluene	<0.00200	U	0.100	0.09513		mg/Kg		95	70 - 130	15	35
Ethylbenzene	<0.00200	U	0.100	0.1026		mg/Kg		103	70 - 130	16	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2056		mg/Kg		103	70 - 130	15	35
o-Xylene	<0.00200	U	0.100	0.1063		mg/Kg		106	70 - 130	15	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-124493/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 124478

Prep Batch: 124493

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/20/25 05:00	11/20/25 09:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	11/20/25 05:00	11/20/25 09:58	1
1,4-Difluorobenzene (Surr)	79		70 - 130	11/20/25 05:00	11/20/25 09:58	1

Lab Sample ID: LCS 880-124493/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 124478

Prep Batch: 124493

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Benzene	0.100	0.1135		mg/Kg		113	70 - 130
Toluene	0.100	0.1062		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1154		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2207		mg/Kg		110	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

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

Lab Sample ID: LCS 880-124493/1-A
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-124493/2-A
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124493

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.1191		mg/Kg		119	70 - 130	5	35
Toluene	0.100	0.1128		mg/Kg		113	70 - 130	6	35
Ethylbenzene	0.100	0.1210		mg/Kg		121	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2345		mg/Kg		117	70 - 130	6	35
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-9100-1 MS
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: FS 01
Prep Type: Total/NA
Prep Batch: 124493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1263		mg/Kg		126	70 - 130
Toluene	<0.00200	U	0.100	0.1213		mg/Kg		121	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.1329	F1	mg/Kg		133	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2589		mg/Kg		129	70 - 130
o-Xylene	<0.00200	U	0.100	0.1257		mg/Kg		126	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 890-9100-1 MSD
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: FS 01
Prep Type: Total/NA
Prep Batch: 124493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1149		mg/Kg		115	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.1093		mg/Kg		109	70 - 130	10	35
Ethylbenzene	<0.00200	U F1	0.100	0.1185		mg/Kg		119	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2315		mg/Kg		116	70 - 130	11	35
o-Xylene	<0.00200	U	0.100	0.1147		mg/Kg		115	70 - 130	9	35

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QC Sample Results

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

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

Lab Sample ID: 890-9100-1 MSD
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: FS 01
Prep Type: Total/NA
Prep Batch: 124493

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

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

Lab Sample ID: MB 880-124468/1-A
Matrix: Solid
Analysis Batch: 124413

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124468

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/25 18:53	11/20/25 02:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/25 18:53	11/20/25 02:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/25 18:53	11/20/25 02:11	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	110		70 - 130	11/19/25 18:53	11/20/25 02:11	1
o-Terphenyl	111		70 - 130	11/19/25 18:53	11/20/25 02:11	1

Lab Sample ID: LCS 880-124468/2-A
Matrix: Solid
Analysis Batch: 124413

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	1188		mg/Kg		119	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	17	S1-	70 - 130
o-Terphenyl	24	S1-	70 - 130

Lab Sample ID: LCSD 880-124468/3-A
Matrix: Solid
Analysis Batch: 124413

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124468

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	1170		mg/Kg		117	70 - 130	1	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	17	S1-	70 - 130
o-Terphenyl	23	S1-	70 - 130

QC Sample Results

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

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

Lab Sample ID: 890-9099-A-38-C MS
Matrix: Solid
Analysis Batch: 124413

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 124468

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	958.5		mg/Kg		96	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1016		mg/Kg		102	70 - 130
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	102		70 - 130						
o-Terphenyl	131	S1+	70 - 130						

Lab Sample ID: 890-9099-A-38-D MSD
Matrix: Solid
Analysis Batch: 124413

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 124468

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	866.6		mg/Kg		87	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	862.5		mg/Kg		86	70 - 130	16	20
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	92		70 - 130								
o-Terphenyl	111		70 - 130								

Lab Sample ID: MB 880-124469/1-A
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124469

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 02:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 02:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 02:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			11/19/25 18:57	11/20/25 02:11	1
o-Terphenyl	86		70 - 130			11/19/25 18:57	11/20/25 02:11	1

Lab Sample ID: LCS 880-124469/2-A
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	936.3		mg/Kg		94	70 - 130

QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

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

Lab Sample ID: LCS 880-124469/2-A
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124469

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	11	S1-	70 - 130
o-Terphenyl	13	S1-	70 - 130

Lab Sample ID: LCSD 880-124469/3-A
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1008		mg/Kg		101	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)	1000	904.0		mg/Kg		90	70 - 130	4	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	19	S1-	70 - 130
o-Terphenyl	13	S1-	70 - 130

Lab Sample ID: 890-9100-5 MS
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: FS 05
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	746.8		mg/Kg		73	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	653.0	F1	mg/Kg		65	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	76		70 - 130
o-Terphenyl	69	S1-	70 - 130

Lab Sample ID: 890-9100-5 MSD
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: FS 05
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	758.3		mg/Kg		74	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	699.7		mg/Kg		70	70 - 130	7	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	64	S1-	70 - 130
o-Terphenyl	69	S1-	70 - 130

QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-124447/1-A
 Matrix: Solid
 Analysis Batch: 124481

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			11/20/25 08:00	1

Lab Sample ID: LCS 880-124447/2-A
 Matrix: Solid
 Analysis Batch: 124481

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	227.3		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-124447/3-A
 Matrix: Solid
 Analysis Batch: 124481

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	235.4		mg/Kg		94	90 - 110	3	20

Lab Sample ID: 890-9100-1 MS
 Matrix: Solid
 Analysis Batch: 124481

Client Sample ID: FS 01
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<10.1	U	253	239.8		mg/Kg		92	90 - 110

Lab Sample ID: 890-9100-1 MSD
 Matrix: Solid
 Analysis Batch: 124481

Client Sample ID: FS 01
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<10.1	U	253	239.9		mg/Kg		92	90 - 110	0	20

QC Association Summary

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

GC VOA

Analysis Batch: 124476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-6	FS 06	Total/NA	Solid	8021B	124485
890-9100-7	FS 07	Total/NA	Solid	8021B	124485
890-9100-8	FS 08	Total/NA	Solid	8021B	124485
890-9100-9	FS 09	Total/NA	Solid	8021B	124485
890-9100-10	FS 10	Total/NA	Solid	8021B	124485
MB 880-124485/5-A	Method Blank	Total/NA	Solid	8021B	124485
LCS 880-124485/1-A	Lab Control Sample	Total/NA	Solid	8021B	124485
LCSD 880-124485/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	124485
890-9100-6 MS	FS 06	Total/NA	Solid	8021B	124485
890-9100-6 MSD	FS 06	Total/NA	Solid	8021B	124485

Analysis Batch: 124478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-1	FS 01	Total/NA	Solid	8021B	124493
890-9100-2	FS 02	Total/NA	Solid	8021B	124493
890-9100-3	FS 03	Total/NA	Solid	8021B	124493
890-9100-4	FS 04	Total/NA	Solid	8021B	124493
890-9100-5	FS 05	Total/NA	Solid	8021B	124493
MB 880-124493/5-A	Method Blank	Total/NA	Solid	8021B	124493
LCS 880-124493/1-A	Lab Control Sample	Total/NA	Solid	8021B	124493
LCSD 880-124493/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	124493
890-9100-1 MS	FS 01	Total/NA	Solid	8021B	124493
890-9100-1 MSD	FS 01	Total/NA	Solid	8021B	124493

Prep Batch: 124485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-6	FS 06	Total/NA	Solid	5035	
890-9100-7	FS 07	Total/NA	Solid	5035	
890-9100-8	FS 08	Total/NA	Solid	5035	
890-9100-9	FS 09	Total/NA	Solid	5035	
890-9100-10	FS 10	Total/NA	Solid	5035	
MB 880-124485/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-124485/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-124485/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9100-6 MS	FS 06	Total/NA	Solid	5035	
890-9100-6 MSD	FS 06	Total/NA	Solid	5035	

Prep Batch: 124493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-1	FS 01	Total/NA	Solid	5035	
890-9100-2	FS 02	Total/NA	Solid	5035	
890-9100-3	FS 03	Total/NA	Solid	5035	
890-9100-4	FS 04	Total/NA	Solid	5035	
890-9100-5	FS 05	Total/NA	Solid	5035	
MB 880-124493/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-124493/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-124493/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9100-1 MS	FS 01	Total/NA	Solid	5035	
890-9100-1 MSD	FS 01	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

GC VOA

Analysis Batch: 124549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-1	FS 01	Total/NA	Solid	Total BTEX	
890-9100-2	FS 02	Total/NA	Solid	Total BTEX	
890-9100-3	FS 03	Total/NA	Solid	Total BTEX	
890-9100-4	FS 04	Total/NA	Solid	Total BTEX	
890-9100-5	FS 05	Total/NA	Solid	Total BTEX	
890-9100-6	FS 06	Total/NA	Solid	Total BTEX	
890-9100-7	FS 07	Total/NA	Solid	Total BTEX	
890-9100-8	FS 08	Total/NA	Solid	Total BTEX	
890-9100-9	FS 09	Total/NA	Solid	Total BTEX	
890-9100-10	FS 10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 124409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-5	FS 05	Total/NA	Solid	8015B NM	124469
890-9100-6	FS 06	Total/NA	Solid	8015B NM	124469
890-9100-7	FS 07	Total/NA	Solid	8015B NM	124469
890-9100-8	FS 08	Total/NA	Solid	8015B NM	124469
890-9100-9	FS 09	Total/NA	Solid	8015B NM	124469
890-9100-10	FS 10	Total/NA	Solid	8015B NM	124469
MB 880-124469/1-A	Method Blank	Total/NA	Solid	8015B NM	124469
LCS 880-124469/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	124469
LCSD 880-124469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	124469
890-9100-5 MS	FS 05	Total/NA	Solid	8015B NM	124469
890-9100-5 MSD	FS 05	Total/NA	Solid	8015B NM	124469

Analysis Batch: 124413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-1	FS 01	Total/NA	Solid	8015B NM	124468
890-9100-2	FS 02	Total/NA	Solid	8015B NM	124468
890-9100-3	FS 03	Total/NA	Solid	8015B NM	124468
890-9100-4	FS 04	Total/NA	Solid	8015B NM	124468
MB 880-124468/1-A	Method Blank	Total/NA	Solid	8015B NM	124468
LCS 880-124468/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	124468
LCSD 880-124468/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	124468
890-9099-A-38-C MS	Matrix Spike	Total/NA	Solid	8015B NM	124468
890-9099-A-38-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	124468

Prep Batch: 124468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-1	FS 01	Total/NA	Solid	8015NM Prep	
890-9100-2	FS 02	Total/NA	Solid	8015NM Prep	
890-9100-3	FS 03	Total/NA	Solid	8015NM Prep	
890-9100-4	FS 04	Total/NA	Solid	8015NM Prep	
MB 880-124468/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-124468/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-124468/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9099-A-38-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9099-A-38-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

GC Semi VOA

Prep Batch: 124469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-5	FS 05	Total/NA	Solid	8015NM Prep	
890-9100-6	FS 06	Total/NA	Solid	8015NM Prep	
890-9100-7	FS 07	Total/NA	Solid	8015NM Prep	
890-9100-8	FS 08	Total/NA	Solid	8015NM Prep	
890-9100-9	FS 09	Total/NA	Solid	8015NM Prep	
890-9100-10	FS 10	Total/NA	Solid	8015NM Prep	
MB 880-124469/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-124469/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-124469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9100-5 MS	FS 05	Total/NA	Solid	8015NM Prep	
890-9100-5 MSD	FS 05	Total/NA	Solid	8015NM Prep	

Analysis Batch: 124546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-1	FS 01	Total/NA	Solid	8015 NM	
890-9100-2	FS 02	Total/NA	Solid	8015 NM	
890-9100-3	FS 03	Total/NA	Solid	8015 NM	
890-9100-4	FS 04	Total/NA	Solid	8015 NM	
890-9100-5	FS 05	Total/NA	Solid	8015 NM	
890-9100-6	FS 06	Total/NA	Solid	8015 NM	
890-9100-7	FS 07	Total/NA	Solid	8015 NM	
890-9100-8	FS 08	Total/NA	Solid	8015 NM	
890-9100-9	FS 09	Total/NA	Solid	8015 NM	
890-9100-10	FS 10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 124447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-1	FS 01	Soluble	Solid	DI Leach	
890-9100-2	FS 02	Soluble	Solid	DI Leach	
890-9100-3	FS 03	Soluble	Solid	DI Leach	
890-9100-4	FS 04	Soluble	Solid	DI Leach	
890-9100-5	FS 05	Soluble	Solid	DI Leach	
890-9100-6	FS 06	Soluble	Solid	DI Leach	
890-9100-7	FS 07	Soluble	Solid	DI Leach	
890-9100-8	FS 08	Soluble	Solid	DI Leach	
890-9100-9	FS 09	Soluble	Solid	DI Leach	
890-9100-10	FS 10	Soluble	Solid	DI Leach	
MB 880-124447/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-124447/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-124447/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9100-1 MS	FS 01	Soluble	Solid	DI Leach	
890-9100-1 MSD	FS 01	Soluble	Solid	DI Leach	

Analysis Batch: 124481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-1	FS 01	Soluble	Solid	300.0	124447
890-9100-2	FS 02	Soluble	Solid	300.0	124447
890-9100-3	FS 03	Soluble	Solid	300.0	124447
890-9100-4	FS 04	Soluble	Solid	300.0	124447

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

HPLC/IC (Continued)

Analysis Batch: 124481 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-5	FS 05	Soluble	Solid	300.0	124447
890-9100-6	FS 06	Soluble	Solid	300.0	124447
890-9100-7	FS 07	Soluble	Solid	300.0	124447
890-9100-8	FS 08	Soluble	Solid	300.0	124447
890-9100-9	FS 09	Soluble	Solid	300.0	124447
890-9100-10	FS 10	Soluble	Solid	300.0	124447
MB 880-124447/1-A	Method Blank	Soluble	Solid	300.0	124447
LCS 880-124447/2-A	Lab Control Sample	Soluble	Solid	300.0	124447
LCSD 880-124447/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	124447
890-9100-1 MS	FS 01	Soluble	Solid	300.0	124447
890-9100-1 MSD	FS 01	Soluble	Solid	300.0	124447

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Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

Client Sample ID: FS 01

Lab Sample ID: 890-9100-1

Date Collected: 11/18/25 09:50

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	124493	11/20/25 05:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124478	11/20/25 10:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 10:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			124546	11/20/25 08:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	124468	11/19/25 18:53	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124413	11/20/25 08:03	FC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 08:22	SMC	EET MID

Client Sample ID: FS 02

Lab Sample ID: 890-9100-2

Date Collected: 11/18/25 09:53

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	124493	11/20/25 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124478	11/20/25 10:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 10:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			124546	11/20/25 08:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	124468	11/19/25 18:53	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124413	11/20/25 08:18	FC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 08:39	SMC	EET MID

Client Sample ID: FS 03

Lab Sample ID: 890-9100-3

Date Collected: 11/18/25 09:56

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	124493	11/20/25 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124478	11/20/25 11:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 11:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			124546	11/20/25 08:34	SA	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10.00 mL	124468	11/19/25 18:53	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124413	11/20/25 08:34	FC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 08:45	SMC	EET MID

Client Sample ID: FS 04

Lab Sample ID: 890-9100-4

Date Collected: 11/18/25 09:59

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	124493	11/20/25 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124478	11/20/25 11:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 11:21	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

Client Sample ID: FS 04

Lab Sample ID: 890-9100-4

Date Collected: 11/18/25 09:59

Matrix: Solid

Date Received: 11/19/25 09:03

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			124546	11/20/25 08:49	SA	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10.00 mL	124468	11/19/25 18:53	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124413	11/20/25 08:49	FC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 08:51	SMC	EET MID

Client Sample ID: FS 05

Lab Sample ID: 890-9100-5

Date Collected: 11/18/25 10:02

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	124493	11/20/25 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124478	11/20/25 11:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 11:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			124546	11/20/25 03:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 03:12	SA	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 08:57	SMC	EET MID

Client Sample ID: FS 06

Lab Sample ID: 890-9100-6

Date Collected: 11/18/25 10:05

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	124485	11/20/25 08:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124476	11/20/25 10:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 10:55	SA	EET MID
Total/NA	Analysis	8015 NM		1			124546	11/20/25 03:59	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 03:59	SA	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 09:14	SMC	EET MID

Client Sample ID: FS 07

Lab Sample ID: 890-9100-7

Date Collected: 11/18/25 11:40

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	124485	11/20/25 08:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124476	11/20/25 11:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 11:15	SA	EET MID
Total/NA	Analysis	8015 NM		1			124546	11/20/25 04:14	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 04:14	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

Client Sample ID: FS 07

Lab Sample ID: 890-9100-7

Date Collected: 11/18/25 11:40

Matrix: Solid

Date Received: 11/19/25 09:03

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	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 09:20	SMC	EET MID

Client Sample ID: FS 08

Lab Sample ID: 890-9100-8

Date Collected: 11/18/25 11:43

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	124485	11/20/25 08:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124476	11/20/25 11:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 11:36	SA	EET MID
Total/NA	Analysis	8015 NM		1			124546	11/20/25 04:30	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 04:30	SA	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 09:26	SMC	EET MID

Client Sample ID: FS 09

Lab Sample ID: 890-9100-9

Date Collected: 11/18/25 11:46

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	124485	11/20/25 08:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124476	11/20/25 11:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 11:56	SA	EET MID
Total/NA	Analysis	8015 NM		1			124546	11/20/25 04:45	SA	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 04:45	SA	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 09:32	SMC	EET MID

Client Sample ID: FS 10

Lab Sample ID: 890-9100-10

Date Collected: 11/18/25 11:49

Matrix: Solid

Date Received: 11/19/25 09:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	124485	11/20/25 08:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124476	11/20/25 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124549	11/20/25 12:16	SA	EET MID
Total/NA	Analysis	8015 NM		1			124546	11/20/25 05:01	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 05:01	SA	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 09:38	SMC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

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: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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Method Summary

Client: Ensolum
 Project/Site: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
 SDG: 03C1558733

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: JRU DI 8 Illegal Dump

Job ID: 890-9100-1
SDG: 03C1558733

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9100-1	FS 01	Solid	11/18/25 09:50	11/19/25 09:03	2.5
890-9100-2	FS 02	Solid	11/18/25 09:53	11/19/25 09:03	2.5
890-9100-3	FS 03	Solid	11/18/25 09:56	11/19/25 09:03	2.5
890-9100-4	FS 04	Solid	11/18/25 09:59	11/19/25 09:03	2.5
890-9100-5	FS 05	Solid	11/18/25 10:02	11/19/25 09:03	2.5
890-9100-6	FS 06	Solid	11/18/25 10:05	11/19/25 09:03	2.5
890-9100-7	FS 07	Solid	11/18/25 11:40	11/19/25 09:03	2.5
890-9100-8	FS 08	Solid	11/18/25 11:43	11/19/25 09:03	2.5
890-9100-9	FS 09	Solid	11/18/25 11:46	11/19/25 09:03	2.5
890-9100-10	FS 10	Solid	11/18/25 11:49	11/19/25 09:03	2.5

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Environment Testing

XENCO

Chain of Custody

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

W



890-9100 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager: Tracy Hillard
Company Name: Ensolum
Address: 3122 National Parks Hwy
City, State ZIP: Carlsbad, NM 88220
Phone: 575-937-3906
Bill to: (if different) Robert Woodall
Company Name: XTO Energy, Inc
Address: 3104 E Greene St
City, State ZIP: Carlsbad, NM 88220
Email: Kihomason, Tmorrissey, Thillard, Jreich, Boeilll@ensolum.com

Program: UST/PST
State of Project:
Reporting: Level II
Level III
PST/UST
TRRP
Level IV
Deliverables: EDD
ADAPT
Other:

Project Name: JRU DI 8 Illegal Dump
Project Number: 03C1558733
Project Location: 32.3413056, -103.8543611
Sampler's Name: Evan Roe
Temp Blank: Yes No
Wet Ice: Yes No
Thermometer ID:
Cooler Custody Seals: Yes No
Sample Custody Seals: Yes No
Corrected Temperature: 2.4

Table with columns: Sample Identification, Matrix, Date Sampled, Time Sampled, Depth, Grav/Comp, # of Cont, CHLORIDES (EPA: 300.0), TPH, BTEX, Preservative Codes, Sample Comments.

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb 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 \$86.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Reinquished by: (Signature) Date/Time
Received by: (Signature) Date/Time

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9100-1

SDG Number: 03C1558733

Login Number: 9100

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9100-1

SDG Number: 03C1558733

Login Number: 9100

List Number: 2

Creator: Lee, Randall

List Source: Eurofins Midland

List Creation: 11/20/25 07:51 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tracy Hillard
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 11/20/2025 1:29:07 PM

JOB DESCRIPTION

JRU DI 8 ILLEGAL DUMP
03C1558733

JOB NUMBER

890-9101-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.



Eurofins Carlsbad

Job Notes

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

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

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
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Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Laboratory Job ID: 890-9101-1
SDG: 03C1558733

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1

Job ID: 890-9101-1

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Job Narrative 890-9101-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/19/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 11 (890-9101-1), FS 12 (890-9101-2), FS 13 (890-9101-3), FS 14 (890-9101-4), FS 15 (890-9101-5), FS 16 (890-9101-6), FS 17 (890-9101-7) and FS 18 (890-9101-8).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-124493 and analytical batch 880-124478 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-124478/2), (LCS 880-124493/1-A), (LCSD 880-124493/2-A), (890-9100-A-1-G), (890-9100-A-1-E MS) and (890-9100-A-1-F MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike (MS) recoveries for preparation batch 880-124493 and analytical batch 880-124478 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside the upper control limit: FS 18 (890-9101-8). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-124469/2-A) and (LCSD 880-124469/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-9100-A-5-C MS) and (890-9100-A-5-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-124469 and analytical batch 880-124409 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 11 (890-9101-1), FS 13 (890-9101-3), FS 14 (890-9101-4), FS 15 (890-9101-5), FS 17 (890-9101-7), FS 18 (890-9101-8), (890-9100-A-5-B), (890-9100-A-5-C MS) and (890-9100-A-5-D MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch

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Case Narrative

Client: Ensolum
Project: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1

Job ID: 890-9101-1 (Continued)

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880-124447 and analytical batch 880-124481 were outside control limits for Chloride . See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: FS 11 (890-9101-1), FS 12 (890-9101-2), (890-9101-A-1-B MS) and (890-9101-A-1-C MSD).

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: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 11

Lab Sample ID: 890-9101-1

Date Collected: 11/18/25 11:52

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 2.5

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		11/20/25 08:45	11/20/25 10:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 10:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 10:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/20/25 08:45	11/20/25 10:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 10:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/20/25 08:45	11/20/25 10:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	11/20/25 08:45	11/20/25 10:17	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/20/25 08:45	11/20/25 10:17	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			11/20/25 10:17	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			11/20/25 05:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		11/19/25 18:57	11/20/25 05:16	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/19/25 18:57	11/20/25 05:16	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/19/25 18:57	11/20/25 05:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	11/19/25 18:57	11/20/25 05:16	1
o-Terphenyl	72		70 - 130	11/19/25 18:57	11/20/25 05:16	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U F1	9.94	mg/Kg			11/20/25 09:44	1

Client Sample ID: FS 12

Lab Sample ID: 890-9101-2

Date Collected: 11/18/25 11:55

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 2.5

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		11/20/25 08:45	11/20/25 10:37	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:45	11/20/25 10:37	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:45	11/20/25 10:37	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/20/25 08:45	11/20/25 10:37	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:45	11/20/25 10:37	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/20/25 08:45	11/20/25 10:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/20/25 08:45	11/20/25 10:37	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 12

Lab Sample ID: 890-9101-2

Date Collected: 11/18/25 11:55

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	11/20/25 08:45	11/20/25 10:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/20/25 10:37	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			11/20/25 05:32	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		11/19/25 18:57	11/20/25 05:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		11/19/25 18:57	11/20/25 05:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/19/25 18:57	11/20/25 05:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	11/19/25 18:57	11/20/25 05:32	1
o-Terphenyl	78		70 - 130	11/19/25 18:57	11/20/25 05:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			11/20/25 10:01	1

Client Sample ID: FS 13

Lab Sample ID: 890-9101-3

Date Collected: 11/18/25 14:20

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 2.5

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		11/20/25 08:45	11/20/25 10:58	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/20/25 08:45	11/20/25 10:58	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/20/25 08:45	11/20/25 10:58	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/20/25 08:45	11/20/25 10:58	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/20/25 08:45	11/20/25 10:58	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/20/25 08:45	11/20/25 10:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	11/20/25 08:45	11/20/25 10:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/20/25 08:45	11/20/25 10:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/20/25 10:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/20/25 05:47	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 13

Lab Sample ID: 890-9101-3

Date Collected: 11/18/25 14:20

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 05:47	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 05:47	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 05:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130			11/19/25 18:57	11/20/25 05:47	1
o-Terphenyl	71		70 - 130			11/19/25 18:57	11/20/25 05:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.8		9.98	mg/Kg			11/20/25 08:33	1

Client Sample ID: FS 14

Lab Sample ID: 890-9101-4

Date Collected: 11/18/25 14:23

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 2.5

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		11/20/25 08:45	11/20/25 11:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 11:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 11:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/20/25 08:45	11/20/25 11:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 11:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/20/25 08:45	11/20/25 11:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			11/20/25 08:45	11/20/25 11:19	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/20/25 08:45	11/20/25 11:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/20/25 11:19	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			11/20/25 06:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 06:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 06:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 06:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			11/19/25 18:57	11/20/25 06:03	1
o-Terphenyl	71		70 - 130			11/19/25 18:57	11/20/25 06:03	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 14

Lab Sample ID: 890-9101-4

Date Collected: 11/18/25 14:23

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 2.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92	mg/Kg			11/20/25 08:48	1

Client Sample ID: FS 15

Lab Sample ID: 890-9101-5

Date Collected: 11/18/25 14:26

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 2.5

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		11/20/25 08:45	11/20/25 11:39	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:45	11/20/25 11:39	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:45	11/20/25 11:39	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/20/25 08:45	11/20/25 11:39	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:45	11/20/25 11:39	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/20/25 08:45	11/20/25 11:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	11/20/25 08:45	11/20/25 11:39	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/20/25 08:45	11/20/25 11:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/20/25 11:39	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/20/25 06:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 06:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 06:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 06:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	63	S1-	70 - 130	11/19/25 18:57	11/20/25 06:33	1
o-Terphenyl	68	S1-	70 - 130	11/19/25 18:57	11/20/25 06:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.94	U	9.94	mg/Kg			11/20/25 08:54	1

Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 16

Lab Sample ID: 890-9101-6

Date Collected: 11/18/25 14:29

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:45	11/20/25 12:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:45	11/20/25 12:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:45	11/20/25 12:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/20/25 08:45	11/20/25 12:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:45	11/20/25 12:00	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/20/25 08:45	11/20/25 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	11/20/25 08:45	11/20/25 12:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/20/25 08:45	11/20/25 12:00	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			11/20/25 12:00	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			11/20/25 06:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		11/19/25 18:57	11/20/25 06:48	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		11/19/25 18:57	11/20/25 06:48	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		11/19/25 18:57	11/20/25 06:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/19/25 18:57	11/20/25 06:48	1
o-Terphenyl	98		70 - 130	11/19/25 18:57	11/20/25 06:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92	mg/Kg			11/20/25 08:59	1

Client Sample ID: FS 17

Lab Sample ID: 890-9101-7

Date Collected: 11/18/25 14:32

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:59	11/20/25 12:37	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:59	11/20/25 12:37	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:59	11/20/25 12:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/20/25 08:59	11/20/25 12:37	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:59	11/20/25 12:37	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/20/25 08:59	11/20/25 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	11/20/25 08:59	11/20/25 12:37	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 17

Lab Sample ID: 890-9101-7

Date Collected: 11/18/25 14:32

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	107		70 - 130	11/20/25 08:59	11/20/25 12:37	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			11/20/25 12:37	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			11/20/25 07:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		11/19/25 18:57	11/20/25 07:03	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/19/25 18:57	11/20/25 07:03	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/19/25 18:57	11/20/25 07:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130	11/19/25 18:57	11/20/25 07:03	1
o-Terphenyl	66	S1-	70 - 130	11/19/25 18:57	11/20/25 07:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	145		10.0	mg/Kg			11/20/25 09:04	1

Client Sample ID: FS 18

Lab Sample ID: 890-9101-8

Date Collected: 11/18/25 14:35

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/20/25 09:13	11/20/25 12:02	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/20/25 09:13	11/20/25 12:02	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/20/25 09:13	11/20/25 12:02	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/20/25 09:13	11/20/25 12:02	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/20/25 09:13	11/20/25 12:02	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/20/25 09:13	11/20/25 12:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	11/20/25 09:13	11/20/25 12:02	1
1,4-Difluorobenzene (Surr)	86		70 - 130	11/20/25 09:13	11/20/25 12:02	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/20/25 12:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/20/25 07:18	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 18

Lab Sample ID: 890-9101-8

Date Collected: 11/18/25 14:35

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 07:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 07:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 07:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130	11/19/25 18:57	11/20/25 07:18	1
o-Terphenyl	73		70 - 130	11/19/25 18:57	11/20/25 07:18	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.0		10.1	mg/Kg			11/20/25 09:20	1

Surrogate Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

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)
890-9100-A-1-E MS	Matrix Spike	148 S1+	84
890-9100-A-1-F MSD	Matrix Spike Duplicate	151 S1+	85
890-9100-A-6-C MS	Matrix Spike	101	108
890-9100-A-6-D MSD	Matrix Spike Duplicate	102	101
890-9101-1	FS 11	111	96
890-9101-1 MS	FS 11	111	96
890-9101-1 MSD	FS 11	110	102
890-9101-2	FS 12	110	97
890-9101-3	FS 13	104	100
890-9101-4	FS 14	108	99
890-9101-5	FS 15	107	100
890-9101-6	FS 16	105	101
890-9101-7	FS 17	113	107
890-9101-8	FS 18	151 S1+	86
LCS 880-124483/1-A	Lab Control Sample	113	106
LCS 880-124485/1-A	Lab Control Sample	105	106
LCS 880-124493/1-A	Lab Control Sample	147 S1+	86
LCSD 880-124483/2-A	Lab Control Sample Dup	103	101
LCSD 880-124485/2-A	Lab Control Sample Dup	102	103
LCSD 880-124493/2-A	Lab Control Sample Dup	151 S1+	85
MB 880-124483/5-A	Method Blank	114	93
MB 880-124485/5-A	Method Blank	101	101
MB 880-124493/5-A	Method Blank	134 S1+	79

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)
890-9100-A-5-C MS	Matrix Spike	76	69 S1-
890-9100-A-5-D MSD	Matrix Spike Duplicate	64 S1-	69 S1-
890-9101-1	FS 11	68 S1-	72
890-9101-2	FS 12	73	78
890-9101-3	FS 13	65 S1-	71
890-9101-4	FS 14	68 S1-	71
890-9101-5	FS 15	63 S1-	68 S1-
890-9101-6	FS 16	93	98
890-9101-7	FS 17	62 S1-	66 S1-
890-9101-8	FS 18	68 S1-	73
LCS 880-124469/2-A	Lab Control Sample	11 S1-	13 S1-
LCSD 880-124469/3-A	Lab Control Sample Dup	19 S1-	13 S1-
MB 880-124469/1-A	Method Blank	81	86

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-124483/5-A
 Matrix: Solid
 Analysis Batch: 124477

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 124483

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 09:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 09:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 09:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/20/25 08:45	11/20/25 09:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:45	11/20/25 09:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/20/25 08:45	11/20/25 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	11/20/25 08:45	11/20/25 09:55	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/20/25 08:45	11/20/25 09:55	1

Lab Sample ID: LCS 880-124483/1-A
 Matrix: Solid
 Analysis Batch: 124477

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 124483

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1017		mg/Kg		102	70 - 130
Toluene	0.100	0.08826		mg/Kg		88	70 - 130
Ethylbenzene	0.100	0.09908		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2073		mg/Kg		104	70 - 130
o-Xylene	0.100	0.1070		mg/Kg		107	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-124483/2-A
 Matrix: Solid
 Analysis Batch: 124477

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 124483

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1061		mg/Kg		106	70 - 130	4	35
Toluene	0.100	0.08825		mg/Kg		88	70 - 130	0	35
Ethylbenzene	0.100	0.09400		mg/Kg		94	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1913		mg/Kg		96	70 - 130	8	35
o-Xylene	0.100	0.1044		mg/Kg		104	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 890-9101-1 MS
 Matrix: Solid
 Analysis Batch: 124477

Client Sample ID: FS 11
 Prep Type: Total/NA
 Prep Batch: 124483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.08985		mg/Kg		90	70 - 130
Toluene	<0.00200	U	0.100	0.09336		mg/Kg		93	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

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

Lab Sample ID: 890-9101-1 MS

Client Sample ID: FS 11

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 124477

Prep Batch: 124483

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier		Added	Result				
Ethylbenzene	<0.00200	U	0.100	0.1049		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2157		mg/Kg		108	70 - 130
o-Xylene	<0.00200	U	0.100	0.1089		mg/Kg		109	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-9101-1 MSD

Client Sample ID: FS 11

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 124477

Prep Batch: 124483

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier		Added	Result						
Benzene	<0.00200	U	0.100	0.09280		mg/Kg		93	70 - 130	3	35
Toluene	<0.00200	U	0.100	0.08623		mg/Kg		86	70 - 130	8	35
Ethylbenzene	<0.00200	U	0.100	0.09302		mg/Kg		93	70 - 130	12	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2031		mg/Kg		102	70 - 130	6	35
o-Xylene	<0.00200	U	0.100	0.1031		mg/Kg		103	70 - 130	5	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-124485/5-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 124476

Prep Batch: 124485

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:59	11/20/25 10:33	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/20/25 08:59	11/20/25 10:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	101		70 - 130	11/20/25 08:59	11/20/25 10:33	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/20/25 08:59	11/20/25 10:33	1

Lab Sample ID: LCS 880-124485/1-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 124476

Prep Batch: 124485

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
		Added	Result				
Benzene	0.100	0.1032		mg/Kg		103	70 - 130
Toluene	0.100	0.1019		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.1098		mg/Kg		110	70 - 130
m-Xylene & p-Xylene	0.200	0.2210		mg/Kg		110	70 - 130

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QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

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

Lab Sample ID: LCS 880-124485/1-A
 Matrix: Solid
 Analysis Batch: 124476

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 124485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.1149		mg/Kg		115	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 880-124485/2-A
 Matrix: Solid
 Analysis Batch: 124476

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 124485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09912		mg/Kg		99	70 - 130	4	35
Toluene	0.100	0.09578		mg/Kg		96	70 - 130	6	35
Ethylbenzene	0.100	0.1043		mg/Kg		104	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2077		mg/Kg		104	70 - 130	6	35
o-Xylene	0.100	0.1107		mg/Kg		111	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 890-9100-A-6-C MS
 Matrix: Solid
 Analysis Batch: 124476

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 124485

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1132		mg/Kg		113	70 - 130
Toluene	<0.00200	U	0.100	0.1108		mg/Kg		111	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1198		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2395		mg/Kg		120	70 - 130
o-Xylene	<0.00200	U	0.100	0.1236		mg/Kg		124	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-9100-A-6-D MSD
 Matrix: Solid
 Analysis Batch: 124476

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 124485

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09608		mg/Kg		96	70 - 130	16	35
Toluene	<0.00200	U	0.100	0.09513		mg/Kg		95	70 - 130	15	35
Ethylbenzene	<0.00200	U	0.100	0.1026		mg/Kg		103	70 - 130	16	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2056		mg/Kg		103	70 - 130	15	35
o-Xylene	<0.00200	U	0.100	0.1063		mg/Kg		106	70 - 130	15	35

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QC Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

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

Lab Sample ID: 890-9100-A-6-D MSD
Matrix: Solid
Analysis Batch: 124476

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 124485

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: MB 880-124493/5-A
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124493

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 05:00	11/20/25 09:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/20/25 05:00	11/20/25 09:58	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130	11/20/25 05:00	11/20/25 09:58	1
1,4-Difluorobenzene (Surr)	79		70 - 130	11/20/25 05:00	11/20/25 09:58	1

Lab Sample ID: LCS 880-124493/1-A
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124493

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.100	0.1135		mg/Kg		113	70 - 130
Toluene	0.100	0.1062		mg/Kg		106	70 - 130
Ethylbenzene	0.100	0.1154		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2207		mg/Kg		110	70 - 130
o-Xylene	0.100	0.1161		mg/Kg		116	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	147	S1+	70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: LCSD 880-124493/2-A
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124493

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.100	0.1191		mg/Kg		119	70 - 130	5	35
Toluene	0.100	0.1128		mg/Kg		113	70 - 130	6	35
Ethylbenzene	0.100	0.1210		mg/Kg		121	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2345		mg/Kg		117	70 - 130	6	35
o-Xylene	0.100	0.1197		mg/Kg		120	70 - 130	3	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

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

Lab Sample ID: LCSD 880-124493/2-A
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124493

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-9100-A-1-E MS
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 124493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1263		mg/Kg		126	70 - 130
Toluene	<0.00200	U	0.100	0.1213		mg/Kg		121	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.1329	F1	mg/Kg		133	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2589		mg/Kg		129	70 - 130
o-Xylene	<0.00200	U	0.100	0.1257		mg/Kg		126	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	148	S1+	70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 890-9100-A-1-F MSD
Matrix: Solid
Analysis Batch: 124478

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 124493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.1149		mg/Kg		115	70 - 130	9	35
Toluene	<0.00200	U	0.100	0.1093		mg/Kg		109	70 - 130	10	35
Ethylbenzene	<0.00200	U F1	0.100	0.1185		mg/Kg		119	70 - 130	11	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2315		mg/Kg		116	70 - 130	11	35
o-Xylene	<0.00200	U	0.100	0.1147		mg/Kg		115	70 - 130	9	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

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

Lab Sample ID: MB 880-124469/1-A
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124469

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		11/19/25 18:57	11/20/25 02:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 02:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 02:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130	11/19/25 18:57	11/20/25 02:11	1
o-Terphenyl	86		70 - 130	11/19/25 18:57	11/20/25 02:11	1

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QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

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

Lab Sample ID: LCS 880-124469/2-A
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	1005		mg/Kg		101	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	936.3		mg/Kg		94	70 - 130	
		LCS	LCS					
Surrogate	%Recovery	Qualifier	Limits					
1-Chlorooctane	11	S1-	70 - 130					
o-Terphenyl	13	S1-	70 - 130					

Lab Sample ID: LCSD 880-124469/3-A
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1008		mg/Kg		101	70 - 130	0	20	
Diesel Range Organics (Over C10-C28)	1000	904.0		mg/Kg		90	70 - 130	4	20	
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	19	S1-	70 - 130							
o-Terphenyl	13	S1-	70 - 130							

Lab Sample ID: 890-9100-A-5-C MS
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	746.8		mg/Kg		73	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	653.0	F1	mg/Kg		65	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	76		70 - 130							
o-Terphenyl	69	S1-	70 - 130							

Lab Sample ID: 890-9100-A-5-D MSD
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	758.3		mg/Kg		74	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	699.7		mg/Kg		70	70 - 130	7	20	
		MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	64	S1-	70 - 130									

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QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

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

Lab Sample ID: 890-9100-A-5-D MSD
 Matrix: Solid
 Analysis Batch: 124409

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 124469

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl	69	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-124448/1-A
 Matrix: Solid
 Analysis Batch: 124480

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			11/20/25 07:57	1

Lab Sample ID: LCS 880-124448/2-A
 Matrix: Solid
 Analysis Batch: 124480

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.3		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-124448/3-A
 Matrix: Solid
 Analysis Batch: 124480

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.8		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-9101-3 MS
 Matrix: Solid
 Analysis Batch: 124480

Client Sample ID: FS 13
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	10.8		250	248.6		mg/Kg		95	90 - 110

Lab Sample ID: 890-9101-3 MSD
 Matrix: Solid
 Analysis Batch: 124480

Client Sample ID: FS 13
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	10.8		250	250.0		mg/Kg		96	90 - 110	1	20

Lab Sample ID: MB 880-124447/1-A
 Matrix: Solid
 Analysis Batch: 124481

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			11/20/25 08:00	1

QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-124447/2-A
Matrix: Solid
Analysis Batch: 124481

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	227.3		mg/Kg		91	90 - 110

Lab Sample ID: LCSD 880-124447/3-A
Matrix: Solid
Analysis Batch: 124481

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	235.4		mg/Kg		94	90 - 110	3	20

Lab Sample ID: 890-9101-1 MS
Matrix: Solid
Analysis Batch: 124481

Client Sample ID: FS 11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<9.94	U F1	249	224.8	F1	mg/Kg		88	90 - 110

Lab Sample ID: 890-9101-1 MSD
Matrix: Solid
Analysis Batch: 124481

Client Sample ID: FS 11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<9.94	U F1	249	225.0	F1	mg/Kg		88	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

GC VOA

Analysis Batch: 124476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-7	FS 17	Total/NA	Solid	8021B	124485
MB 880-124485/5-A	Method Blank	Total/NA	Solid	8021B	124485
LCS 880-124485/1-A	Lab Control Sample	Total/NA	Solid	8021B	124485
LCSD 880-124485/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	124485
890-9100-A-6-C MS	Matrix Spike	Total/NA	Solid	8021B	124485
890-9100-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	124485

Analysis Batch: 124477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-1	FS 11	Total/NA	Solid	8021B	124483
890-9101-2	FS 12	Total/NA	Solid	8021B	124483
890-9101-3	FS 13	Total/NA	Solid	8021B	124483
890-9101-4	FS 14	Total/NA	Solid	8021B	124483
890-9101-5	FS 15	Total/NA	Solid	8021B	124483
890-9101-6	FS 16	Total/NA	Solid	8021B	124483
MB 880-124483/5-A	Method Blank	Total/NA	Solid	8021B	124483
LCS 880-124483/1-A	Lab Control Sample	Total/NA	Solid	8021B	124483
LCSD 880-124483/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	124483
890-9101-1 MS	FS 11	Total/NA	Solid	8021B	124483
890-9101-1 MSD	FS 11	Total/NA	Solid	8021B	124483

Analysis Batch: 124478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-8	FS 18	Total/NA	Solid	8021B	124493
MB 880-124493/5-A	Method Blank	Total/NA	Solid	8021B	124493
LCS 880-124493/1-A	Lab Control Sample	Total/NA	Solid	8021B	124493
LCSD 880-124493/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	124493
890-9100-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	124493
890-9100-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	124493

Prep Batch: 124483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-1	FS 11	Total/NA	Solid	5035	
890-9101-2	FS 12	Total/NA	Solid	5035	
890-9101-3	FS 13	Total/NA	Solid	5035	
890-9101-4	FS 14	Total/NA	Solid	5035	
890-9101-5	FS 15	Total/NA	Solid	5035	
890-9101-6	FS 16	Total/NA	Solid	5035	
MB 880-124483/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-124483/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-124483/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9101-1 MS	FS 11	Total/NA	Solid	5035	
890-9101-1 MSD	FS 11	Total/NA	Solid	5035	

Prep Batch: 124485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-7	FS 17	Total/NA	Solid	5035	
MB 880-124485/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-124485/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-124485/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9100-A-6-C MS	Matrix Spike	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

GC VOA (Continued)

Prep Batch: 124485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9100-A-6-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 124493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-8	FS 18	Total/NA	Solid	5035	
MB 880-124493/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-124493/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-124493/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9100-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-9100-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 124550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-1	FS 11	Total/NA	Solid	Total BTEX	
890-9101-2	FS 12	Total/NA	Solid	Total BTEX	
890-9101-3	FS 13	Total/NA	Solid	Total BTEX	
890-9101-4	FS 14	Total/NA	Solid	Total BTEX	
890-9101-5	FS 15	Total/NA	Solid	Total BTEX	
890-9101-6	FS 16	Total/NA	Solid	Total BTEX	
890-9101-7	FS 17	Total/NA	Solid	Total BTEX	
890-9101-8	FS 18	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 124409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-1	FS 11	Total/NA	Solid	8015B NM	124469
890-9101-2	FS 12	Total/NA	Solid	8015B NM	124469
890-9101-3	FS 13	Total/NA	Solid	8015B NM	124469
890-9101-4	FS 14	Total/NA	Solid	8015B NM	124469
890-9101-5	FS 15	Total/NA	Solid	8015B NM	124469
890-9101-6	FS 16	Total/NA	Solid	8015B NM	124469
890-9101-7	FS 17	Total/NA	Solid	8015B NM	124469
890-9101-8	FS 18	Total/NA	Solid	8015B NM	124469
MB 880-124469/1-A	Method Blank	Total/NA	Solid	8015B NM	124469
LCS 880-124469/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	124469
LCSD 880-124469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	124469
890-9100-A-5-C MS	Matrix Spike	Total/NA	Solid	8015B NM	124469
890-9100-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	124469

Prep Batch: 124469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-1	FS 11	Total/NA	Solid	8015NM Prep	
890-9101-2	FS 12	Total/NA	Solid	8015NM Prep	
890-9101-3	FS 13	Total/NA	Solid	8015NM Prep	
890-9101-4	FS 14	Total/NA	Solid	8015NM Prep	
890-9101-5	FS 15	Total/NA	Solid	8015NM Prep	
890-9101-6	FS 16	Total/NA	Solid	8015NM Prep	
890-9101-7	FS 17	Total/NA	Solid	8015NM Prep	
890-9101-8	FS 18	Total/NA	Solid	8015NM Prep	
MB 880-124469/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

GC Semi VOA (Continued)

Prep Batch: 124469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-124469/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-124469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9100-A-5-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9100-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 124547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-1	FS 11	Total/NA	Solid	8015 NM	
890-9101-2	FS 12	Total/NA	Solid	8015 NM	
890-9101-3	FS 13	Total/NA	Solid	8015 NM	
890-9101-4	FS 14	Total/NA	Solid	8015 NM	
890-9101-5	FS 15	Total/NA	Solid	8015 NM	
890-9101-6	FS 16	Total/NA	Solid	8015 NM	
890-9101-7	FS 17	Total/NA	Solid	8015 NM	
890-9101-8	FS 18	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 124447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-1	FS 11	Soluble	Solid	DI Leach	
890-9101-2	FS 12	Soluble	Solid	DI Leach	
MB 880-124447/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-124447/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-124447/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9101-1 MS	FS 11	Soluble	Solid	DI Leach	
890-9101-1 MSD	FS 11	Soluble	Solid	DI Leach	

Leach Batch: 124448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-3	FS 13	Soluble	Solid	DI Leach	
890-9101-4	FS 14	Soluble	Solid	DI Leach	
890-9101-5	FS 15	Soluble	Solid	DI Leach	
890-9101-6	FS 16	Soluble	Solid	DI Leach	
890-9101-7	FS 17	Soluble	Solid	DI Leach	
890-9101-8	FS 18	Soluble	Solid	DI Leach	
MB 880-124448/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-124448/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-124448/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9101-3 MS	FS 13	Soluble	Solid	DI Leach	
890-9101-3 MSD	FS 13	Soluble	Solid	DI Leach	

Analysis Batch: 124480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-3	FS 13	Soluble	Solid	300.0	124448
890-9101-4	FS 14	Soluble	Solid	300.0	124448
890-9101-5	FS 15	Soluble	Solid	300.0	124448
890-9101-6	FS 16	Soluble	Solid	300.0	124448
890-9101-7	FS 17	Soluble	Solid	300.0	124448
890-9101-8	FS 18	Soluble	Solid	300.0	124448
MB 880-124448/1-A	Method Blank	Soluble	Solid	300.0	124448

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

HPLC/IC (Continued)

Analysis Batch: 124480 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-124448/2-A	Lab Control Sample	Soluble	Solid	300.0	124448
LCSD 880-124448/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	124448
890-9101-3 MS	FS 13	Soluble	Solid	300.0	124448
890-9101-3 MSD	FS 13	Soluble	Solid	300.0	124448

Analysis Batch: 124481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9101-1	FS 11	Soluble	Solid	300.0	124447
890-9101-2	FS 12	Soluble	Solid	300.0	124447
MB 880-124447/1-A	Method Blank	Soluble	Solid	300.0	124447
LCS 880-124447/2-A	Lab Control Sample	Soluble	Solid	300.0	124447
LCSD 880-124447/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	124447
890-9101-1 MS	FS 11	Soluble	Solid	300.0	124447
890-9101-1 MSD	FS 11	Soluble	Solid	300.0	124447

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Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 11

Lab Sample ID: 890-9101-1

Date Collected: 11/18/25 11:52

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	124483	11/20/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124477	11/20/25 10:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124550	11/20/25 10:17	SA	EET MID
Total/NA	Analysis	8015 NM		1			124547	11/20/25 05:16	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 05:16	SA	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 09:44	SMC	EET MID

Client Sample ID: FS 12

Lab Sample ID: 890-9101-2

Date Collected: 11/18/25 11:55

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	124483	11/20/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124477	11/20/25 10:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124550	11/20/25 10:37	SA	EET MID
Total/NA	Analysis	8015 NM		1			124547	11/20/25 05:32	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 05:32	SA	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	124447	11/19/25 15:24	SA	EET MID
Soluble	Analysis	300.0		1			124481	11/20/25 10:01	SMC	EET MID

Client Sample ID: FS 13

Lab Sample ID: 890-9101-3

Date Collected: 11/18/25 14:20

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	124483	11/20/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124477	11/20/25 10:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124550	11/20/25 10:58	SA	EET MID
Total/NA	Analysis	8015 NM		1			124547	11/20/25 05:47	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 05:47	SA	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 08:33	SMC	EET MID

Client Sample ID: FS 14

Lab Sample ID: 890-9101-4

Date Collected: 11/18/25 14:23

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	124483	11/20/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124477	11/20/25 11:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124550	11/20/25 11:19	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 14
 Date Collected: 11/18/25 14:23
 Date Received: 11/19/25 09:00

Lab Sample ID: 890-9101-4
 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			124547	11/20/25 06:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 06:03	SA	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 08:48	SMC	EET MID

Client Sample ID: FS 15
 Date Collected: 11/18/25 14:26
 Date Received: 11/19/25 09:00

Lab Sample ID: 890-9101-5
 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			4.97 g	5 mL	124483	11/20/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124477	11/20/25 11:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124550	11/20/25 11:39	SA	EET MID
Total/NA	Analysis	8015 NM		1			124547	11/20/25 06:33	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 06:33	SA	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 08:54	SMC	EET MID

Client Sample ID: FS 16
 Date Collected: 11/18/25 14:29
 Date Received: 11/19/25 09:00

Lab Sample ID: 890-9101-6
 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			4.96 g	5 mL	124483	11/20/25 08:45	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124477	11/20/25 12:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124550	11/20/25 12:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			124547	11/20/25 06:48	SA	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 06:48	SA	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 08:59	SMC	EET MID

Client Sample ID: FS 17
 Date Collected: 11/18/25 14:32
 Date Received: 11/19/25 09:00

Lab Sample ID: 890-9101-7
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	124485	11/20/25 08:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124476	11/20/25 12:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124550	11/20/25 12:37	SA	EET MID
Total/NA	Analysis	8015 NM		1			124547	11/20/25 07:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 07:03	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

Client Sample ID: FS 17

Lab Sample ID: 890-9101-7

Date Collected: 11/18/25 14:32

Matrix: Solid

Date Received: 11/19/25 09:00

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	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 09:04	SMC	EET MID

Client Sample ID: FS 18

Lab Sample ID: 890-9101-8

Date Collected: 11/18/25 14:35

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	124493	11/20/25 09:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124478	11/20/25 12:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124550	11/20/25 12:02	SA	EET MID
Total/NA	Analysis	8015 NM		1			124547	11/20/25 07:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 07:18	SA	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 09:20	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: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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Method Summary

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
 SDG: 03C1558733

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: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9101-1
SDG: 03C1558733

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9101-1	FS 11	Solid	11/18/25 11:52	11/19/25 09:00	2.5
890-9101-2	FS 12	Solid	11/18/25 11:55	11/19/25 09:00	2.5
890-9101-3	FS 13	Solid	11/18/25 14:20	11/19/25 09:00	2.5
890-9101-4	FS 14	Solid	11/18/25 14:23	11/19/25 09:00	2.5
890-9101-5	FS 15	Solid	11/18/25 14:26	11/19/25 09:00	2.5
890-9101-6	FS 16	Solid	11/18/25 14:29	11/19/25 09:00	1
890-9101-7	FS 17	Solid	11/18/25 14:32	11/19/25 09:00	1
890-9101-8	FS 18	Solid	11/18/25 14:35	11/19/25 09:00	1

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Environment Testing
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199

Chain of Custody

Work Order No:

www.xenco.com Page 1 of 1

Project Manager:	Tracy Hillard	Bill to: (if different)	Robert Woodall
Company Name:	Ensolium	Company Name:	XTO Energy, Inc
Address:	3122 National Parks Hwy	Address:	3104 E Greene St
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	Carlsbad, NM 88220
Phone:	575-937-3906	Email:	Kthomason, Tmorrissey, Thillard, Jreich, Bbell@ensolium.com

Program: UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Rowfields <input type="checkbox"/> RC <input type="checkbox"/> perfund <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:	JRU DI 8 Illegal Dump	Turn Around	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush	Pres. Code	
Project Number:	03C1558733	Due Date:	2/1/24	ANALYSIS REQUEST	
Project Location:	32,3413056, -103,8543611	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Evan Roe	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Barcode	890-9101 Chain of Custody
PO #:		Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	
SAMPLE RECEIPT		Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	
Samples Received In tact:		Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	2.2
Cooler Custody Seals:		Corrected Temperature:			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grav # of Comp. Cont.	CHLORIDES (EPA: 300.0)	PH	TEX	Preservative Codes	Sample Comments
FS11	Soil	11/18/2025	1152	2.5	Comp 1	✓	✓	✓	None: NO	Incident ID: nAPP2524549272
FS12	Soil	11/18/2025	1155	2.5	Comp 1	✓	✓	✓	Cool: Cool	CC: 2109421001
FS13	Soil	11/18/2025	1420	2.5	Comp 1	✓	✓	✓	HCL: HC	GFCM: 48605000
FS14	Soil	11/18/2025	1423	2.5	Comp 1	✓	✓	✓	H ₂ SO ₄ : H ₂	
FS15	Soil	11/18/2025	1426	2.5	Comp 1	✓	✓	✓	H ₂ PO ₄ : HP	
FS16	Soil	11/18/2025	1429	1	Comp 1	✓	✓	✓	NaHSO ₄ : NABIS	
FS17	Soil	11/18/2025	1432	1	Comp 1	✓	✓	✓	Na ₂ S ₂ O ₃ : NaSO ₃	
FS18	Soil	11/18/2025	1435	1	Comp 1	✓	✓	✓	Zn Acetate+NaOH: ZN	
									NaOH+Ascorbic Acid: SAPC	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na SF TL Sn U V Zn
 Circle Method(s) and Meta(s) to be analyzed: TCEP/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>	11/19/24	<i>[Signature]</i>	<i>[Signature]</i>	11/19/24

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9101-1

SDG Number: 03C1558733

Login Number: 9101

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9101-1

SDG Number: 03C1558733

Login Number: 9101

List Number: 2

Creator: Lee, Randall

List Source: Eurofins Midland

List Creation: 11/20/25 07:51 AM

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tracy Hillard
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 11/20/2025 1:28:22 PM

JOB DESCRIPTION

JRU DI 8 ILLEGAL DUMP
03C1558733

JOB NUMBER

890-9102-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.



Eurofins Carlsbad

Job Notes

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

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

Authorization



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11/20/2025 1:28:22 PM

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

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Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Laboratory Job ID: 890-9102-1
SDG: 03C1558733

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
SDG: 03C1558733

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1

Job ID: 890-9102-1

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Job Narrative 890-9102-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/19/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCS 880-124482/1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-124469/2-A) and (LCSD 880-124469/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-9100-A-5-C MS) and (890-9100-A-5-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike (MS) recoveries for preparation batch 880-124469 and analytical batch 880-124409 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW 02 (890-9102-2), SW 03 (890-9102-3), SS07A (890-9102-5), (890-9100-A-5-B), (890-9100-A-5-C MS) and (890-9100-A-5-D MSD). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
 SDG: 03C1558733

Client Sample ID: SW 01

Lab Sample ID: 890-9102-1

Date Collected: 11/18/25 12:45

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 0-2.5

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		11/20/25 08:38	11/20/25 11:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 11:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 11:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/20/25 08:38	11/20/25 11:19	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 11:19	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/20/25 08:38	11/20/25 11:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/20/25 08:38	11/20/25 11:19	1
1,4-Difluorobenzene (Surr)	105		70 - 130	11/20/25 08:38	11/20/25 11:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/20/25 11:19	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			11/20/25 07:33	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		11/19/25 18:57	11/20/25 07:33	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		11/19/25 18:57	11/20/25 07:33	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		11/19/25 18:57	11/20/25 07:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	11/19/25 18:57	11/20/25 07:33	1
o-Terphenyl	74		70 - 130	11/19/25 18:57	11/20/25 07:33	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.9		10.0	mg/Kg			11/20/25 09:25	1

Client Sample ID: SW 02

Lab Sample ID: 890-9102-2

Date Collected: 11/18/25 12:48

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 0-2.5

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		11/20/25 08:38	11/20/25 11:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:38	11/20/25 11:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:38	11/20/25 11:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/20/25 08:38	11/20/25 11:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/20/25 08:38	11/20/25 11:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/20/25 08:38	11/20/25 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	11/20/25 08:38	11/20/25 11:40	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
SDG: 03C1558733

Client Sample ID: SW 02

Lab Sample ID: 890-9102-2

Date Collected: 11/18/25 12:48

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 0-2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130	11/20/25 08:38	11/20/25 11:40	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			11/20/25 11:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/20/25 07:48	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	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 07:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 07:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/19/25 18:57	11/20/25 07:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	62	S1-	70 - 130	11/19/25 18:57	11/20/25 07:48	1
o-Terphenyl	66	S1-	70 - 130	11/19/25 18:57	11/20/25 07:48	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.92	U	9.92	mg/Kg			11/20/25 09:31	1

Client Sample ID: SW 03

Lab Sample ID: 890-9102-3

Date Collected: 11/18/25 12:51

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 0-2.5

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		11/20/25 08:38	11/20/25 12:00	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:38	11/20/25 12:00	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:38	11/20/25 12:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/20/25 08:38	11/20/25 12:00	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/20/25 08:38	11/20/25 12:00	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/20/25 08:38	11/20/25 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	11/20/25 08:38	11/20/25 12:00	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/20/25 08:38	11/20/25 12:00	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			11/20/25 12:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/20/25 08:03	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
SDG: 03C1558733

Client Sample ID: SW 03

Lab Sample ID: 890-9102-3

Date Collected: 11/18/25 12:51

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 0-2.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 08:03	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 08:03	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/19/25 18:57	11/20/25 08:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130			11/19/25 18:57	11/20/25 08:03	1
o-Terphenyl	68	S1-	70 - 130			11/19/25 18:57	11/20/25 08:03	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	60.2		9.90	mg/Kg			11/20/25 09:36	1

Client Sample ID: SW 04

Lab Sample ID: 890-9102-4

Date Collected: 11/18/25 12:54

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 0-2.5

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		11/20/25 08:38	11/20/25 12:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 12:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 12:21	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/20/25 08:38	11/20/25 12:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 12:21	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/20/25 08:38	11/20/25 12:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			11/20/25 08:38	11/20/25 12:21	1
1,4-Difluorobenzene (Surr)	103		70 - 130			11/20/25 08:38	11/20/25 12:21	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			11/20/25 12:21	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			11/20/25 08:18	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	<49.6	U	49.6	mg/Kg		11/19/25 18:57	11/20/25 08:18	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6	mg/Kg		11/19/25 18:57	11/20/25 08:18	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6	mg/Kg		11/19/25 18:57	11/20/25 08:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			11/19/25 18:57	11/20/25 08:18	1
o-Terphenyl	75		70 - 130			11/19/25 18:57	11/20/25 08:18	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
 SDG: 03C1558733

Client Sample ID: SW 04

Lab Sample ID: 890-9102-4

Date Collected: 11/18/25 12:54

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: 0-2.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.0		9.98	mg/Kg			11/20/25 09:41	1

Client Sample ID: SS07A

Lab Sample ID: 890-9102-5

Date Collected: 11/18/25 12:57

Matrix: Solid

Date Received: 11/19/25 09:00

Sample Depth: SURFACE

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		11/20/25 08:38	11/20/25 12:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/20/25 08:38	11/20/25 12:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/20/25 08:38	11/20/25 12:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/20/25 08:38	11/20/25 12:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/20/25 08:38	11/20/25 12:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/20/25 08:38	11/20/25 12:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			11/20/25 08:38	11/20/25 12:41	1
1,4-Difluorobenzene (Surr)	107		70 - 130			11/20/25 08:38	11/20/25 12:41	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			11/20/25 12:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	74.5		50.1	mg/Kg			11/20/25 08:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		11/19/25 18:57	11/20/25 08:34	1
Diesel Range Organics (Over C10-C28)	74.5		50.1	mg/Kg		11/19/25 18:57	11/20/25 08:34	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/19/25 18:57	11/20/25 08:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	64	S1-	70 - 130			11/19/25 18:57	11/20/25 08:34	1
o-Terphenyl	68	S1-	70 - 130			11/19/25 18:57	11/20/25 08:34	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.9		10.1	mg/Kg			11/20/25 09:46	1

Surrogate Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
SDG: 03C1558733

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)
890-9098-A-1-J MS	Matrix Spike	94	109
890-9098-A-1-K MSD	Matrix Spike Duplicate	96	114
890-9102-1	SW 01	99	105
890-9102-2	SW 02	93	103
890-9102-3	SW 03	93	101
890-9102-4	SW 04	95	103
890-9102-5	SS07A	102	107
LCS 880-124482/1-A	Lab Control Sample	114	134 S1+
LCS 880-124482/2-A	Lab Control Sample Dup	96	118
MB 880-124482/5-A	Method Blank	90	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-9100-A-5-C MS	Matrix Spike	76	69 S1-
890-9100-A-5-D MSD	Matrix Spike Duplicate	64 S1-	69 S1-
890-9102-1	SW 01	71	74
890-9102-2	SW 02	62 S1-	66 S1-
890-9102-3	SW 03	64 S1-	68 S1-
890-9102-4	SW 04	71	75
890-9102-5	SS07A	64 S1-	68 S1-
LCS 880-124469/2-A	Lab Control Sample	11 S1-	13 S1-
LCS 880-124469/3-A	Lab Control Sample Dup	19 S1-	13 S1-
MB 880-124469/1-A	Method Blank	81	86

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
SDG: 03C1558733

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-124482/5-A
Matrix: Solid
Analysis Batch: 124475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124482

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 09:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 09:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 09:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/20/25 08:38	11/20/25 09:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/20/25 08:38	11/20/25 09:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/20/25 08:38	11/20/25 09:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		70 - 130	11/20/25 08:38	11/20/25 09:56	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/20/25 08:38	11/20/25 09:56	1

Lab Sample ID: LCS 880-124482/1-A
Matrix: Solid
Analysis Batch: 124475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124482

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1219		mg/Kg		122	70 - 130
Toluene	0.100	0.1041		mg/Kg		104	70 - 130
Ethylbenzene	0.100	0.1252		mg/Kg		125	70 - 130
m-Xylene & p-Xylene	0.200	0.2055		mg/Kg		103	70 - 130
o-Xylene	0.100	0.1234		mg/Kg		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	134	S1+	70 - 130

Lab Sample ID: LCSD 880-124482/2-A
Matrix: Solid
Analysis Batch: 124475

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124482

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.09731		mg/Kg		97	70 - 130	22	35
Toluene	0.100	0.08301		mg/Kg		83	70 - 130	23	35
Ethylbenzene	0.100	0.1015		mg/Kg		101	70 - 130	21	35
m-Xylene & p-Xylene	0.200	0.1709		mg/Kg		85	70 - 130	18	35
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	118		70 - 130

Lab Sample ID: 890-9098-A-1-J MS
Matrix: Solid
Analysis Batch: 124475

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 124482

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.09301		mg/Kg		93	70 - 130
Toluene	<0.00200	U	0.100	0.09175		mg/Kg		92	70 - 130

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QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
 SDG: 03C1558733

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

Lab Sample ID: 890-9098-A-1-J MS
 Matrix: Solid
 Analysis Batch: 124475

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 124482

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits	
	Result	Qualifier		Result	Qualifier					
Ethylbenzene	<0.00200	U	0.100	0.1053		mg/Kg		105	70 - 130	
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1761		mg/Kg		88	70 - 130	
o-Xylene	<0.00200	U	0.100	0.1022		mg/Kg		102	70 - 130	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	94		70 - 130							
1,4-Difluorobenzene (Surr)	109		70 - 130							

Lab Sample ID: 890-9098-A-1-K MSD
 Matrix: Solid
 Analysis Batch: 124475

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 124482

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Benzene	<0.00200	U	0.100	0.09863		mg/Kg		99	70 - 130	6	35
Toluene	<0.00200	U	0.100	0.08979		mg/Kg		90	70 - 130	2	35
Ethylbenzene	<0.00200	U	0.100	0.1071		mg/Kg		107	70 - 130	2	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1801		mg/Kg		90	70 - 130	2	35
o-Xylene	<0.00200	U	0.100	0.1057		mg/Kg		106	70 - 130	3	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	114		70 - 130								

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

Lab Sample ID: MB 880-124469/1-A
 Matrix: Solid
 Analysis Batch: 124409

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 124469

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 02:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 02:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/19/25 18:57	11/20/25 02:11	1
		MB	MB					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			11/19/25 18:57	11/20/25 02:11	1
o-Terphenyl	86		70 - 130			11/19/25 18:57	11/20/25 02:11	1

Lab Sample ID: LCS 880-124469/2-A
 Matrix: Solid
 Analysis Batch: 124409

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 124469

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	1000	1005		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	936.3		mg/Kg		94	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
SDG: 03C1558733

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

Lab Sample ID: LCS 880-124469/2-A
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124469

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	11	S1-	70 - 130
o-Terphenyl	13	S1-	70 - 130

Lab Sample ID: LCSD 880-124469/3-A
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec		RPD	Limit
		Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1008		mg/Kg		101	70 - 130	0		20
Diesel Range Organics (Over C10-C28)	1000	904.0		mg/Kg		90	70 - 130	4		20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	19	S1-	70 - 130
o-Terphenyl	13	S1-	70 - 130

Lab Sample ID: 890-9100-A-5-C MS
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	746.8		mg/Kg		73	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	653.0	F1	mg/Kg		65	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	76		70 - 130
o-Terphenyl	69	S1-	70 - 130

Lab Sample ID: 890-9100-A-5-D MSD
Matrix: Solid
Analysis Batch: 124409

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 124469

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec		RPD	Limit
				Result	Qualifier				Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	758.3		mg/Kg		74	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	699.7		mg/Kg		70	70 - 130	7	20	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	64	S1-	70 - 130
o-Terphenyl	69	S1-	70 - 130

QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
 SDG: 03C1558733

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-124448/1-A
 Matrix: Solid
 Analysis Batch: 124480

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			11/20/25 07:57	1

Lab Sample ID: LCS 880-124448/2-A
 Matrix: Solid
 Analysis Batch: 124480

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	244.3		mg/Kg		98	90 - 110

Lab Sample ID: LCSD 880-124448/3-A
 Matrix: Solid
 Analysis Batch: 124480

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	245.8		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 890-9102-5 MS
 Matrix: Solid
 Analysis Batch: 124480

Client Sample ID: SS07A
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	19.9		252	269.1		mg/Kg		99	90 - 110

Lab Sample ID: 890-9102-5 MSD
 Matrix: Solid
 Analysis Batch: 124480

Client Sample ID: SS07A
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	19.9		252	270.4		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
SDG: 03C1558733

GC VOA

Analysis Batch: 124475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9102-1	SW 01	Total/NA	Solid	8021B	124482
890-9102-2	SW 02	Total/NA	Solid	8021B	124482
890-9102-3	SW 03	Total/NA	Solid	8021B	124482
890-9102-4	SW 04	Total/NA	Solid	8021B	124482
890-9102-5	SS07A	Total/NA	Solid	8021B	124482
MB 880-124482/5-A	Method Blank	Total/NA	Solid	8021B	124482
LCS 880-124482/1-A	Lab Control Sample	Total/NA	Solid	8021B	124482
LCSD 880-124482/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	124482
890-9098-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	124482
890-9098-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	124482

Prep Batch: 124482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9102-1	SW 01	Total/NA	Solid	5035	
890-9102-2	SW 02	Total/NA	Solid	5035	
890-9102-3	SW 03	Total/NA	Solid	5035	
890-9102-4	SW 04	Total/NA	Solid	5035	
890-9102-5	SS07A	Total/NA	Solid	5035	
MB 880-124482/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-124482/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-124482/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9098-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	
890-9098-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 124565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9102-1	SW 01	Total/NA	Solid	Total BTEX	
890-9102-2	SW 02	Total/NA	Solid	Total BTEX	
890-9102-3	SW 03	Total/NA	Solid	Total BTEX	
890-9102-4	SW 04	Total/NA	Solid	Total BTEX	
890-9102-5	SS07A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 124409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9102-1	SW 01	Total/NA	Solid	8015B NM	124469
890-9102-2	SW 02	Total/NA	Solid	8015B NM	124469
890-9102-3	SW 03	Total/NA	Solid	8015B NM	124469
890-9102-4	SW 04	Total/NA	Solid	8015B NM	124469
890-9102-5	SS07A	Total/NA	Solid	8015B NM	124469
MB 880-124469/1-A	Method Blank	Total/NA	Solid	8015B NM	124469
LCS 880-124469/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	124469
LCSD 880-124469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	124469
890-9100-A-5-C MS	Matrix Spike	Total/NA	Solid	8015B NM	124469
890-9100-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	124469

Prep Batch: 124469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9102-1	SW 01	Total/NA	Solid	8015NM Prep	
890-9102-2	SW 02	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
 SDG: 03C1558733

GC Semi VOA (Continued)

Prep Batch: 124469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9102-3	SW 03	Total/NA	Solid	8015NM Prep	
890-9102-4	SW 04	Total/NA	Solid	8015NM Prep	
890-9102-5	SS07A	Total/NA	Solid	8015NM Prep	
MB 880-124469/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-124469/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-124469/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9100-A-5-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-9100-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 124548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9102-1	SW 01	Total/NA	Solid	8015 NM	
890-9102-2	SW 02	Total/NA	Solid	8015 NM	
890-9102-3	SW 03	Total/NA	Solid	8015 NM	
890-9102-4	SW 04	Total/NA	Solid	8015 NM	
890-9102-5	SS07A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 124448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9102-1	SW 01	Soluble	Solid	DI Leach	
890-9102-2	SW 02	Soluble	Solid	DI Leach	
890-9102-3	SW 03	Soluble	Solid	DI Leach	
890-9102-4	SW 04	Soluble	Solid	DI Leach	
890-9102-5	SS07A	Soluble	Solid	DI Leach	
MB 880-124448/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-124448/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-124448/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9102-5 MS	SS07A	Soluble	Solid	DI Leach	
890-9102-5 MSD	SS07A	Soluble	Solid	DI Leach	

Analysis Batch: 124480

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9102-1	SW 01	Soluble	Solid	300.0	124448
890-9102-2	SW 02	Soluble	Solid	300.0	124448
890-9102-3	SW 03	Soluble	Solid	300.0	124448
890-9102-4	SW 04	Soluble	Solid	300.0	124448
890-9102-5	SS07A	Soluble	Solid	300.0	124448
MB 880-124448/1-A	Method Blank	Soluble	Solid	300.0	124448
LCS 880-124448/2-A	Lab Control Sample	Soluble	Solid	300.0	124448
LCSD 880-124448/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	124448
890-9102-5 MS	SS07A	Soluble	Solid	300.0	124448
890-9102-5 MSD	SS07A	Soluble	Solid	300.0	124448

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
 SDG: 03C1558733

Client Sample ID: SW 01

Lab Sample ID: 890-9102-1

Date Collected: 11/18/25 12:45

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	124482	11/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124475	11/20/25 11:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124565	11/20/25 11:19	SA	EET MID
Total/NA	Analysis	8015 NM		1			124548	11/20/25 07:33	SA	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 07:33	SA	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 09:25	SMC	EET MID

Client Sample ID: SW 02

Lab Sample ID: 890-9102-2

Date Collected: 11/18/25 12:48

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	124482	11/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124475	11/20/25 11:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124565	11/20/25 11:40	SA	EET MID
Total/NA	Analysis	8015 NM		1			124548	11/20/25 07:48	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 07:48	SA	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 09:31	SMC	EET MID

Client Sample ID: SW 03

Lab Sample ID: 890-9102-3

Date Collected: 11/18/25 12:51

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	124482	11/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124475	11/20/25 12:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124565	11/20/25 12:00	SA	EET MID
Total/NA	Analysis	8015 NM		1			124548	11/20/25 08:03	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 08:03	SA	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 09:36	SMC	EET MID

Client Sample ID: SW 04

Lab Sample ID: 890-9102-4

Date Collected: 11/18/25 12:54

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	124482	11/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124475	11/20/25 12:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124565	11/20/25 12:21	SA	EET MID

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Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
 SDG: 03C1558733

Client Sample ID: SW 04

Lab Sample ID: 890-9102-4

Date Collected: 11/18/25 12:54

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			124548	11/20/25 08:18	SA	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 08:18	SA	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 09:41	SMC	EET MID

Client Sample ID: SS07A

Lab Sample ID: 890-9102-5

Date Collected: 11/18/25 12:57

Matrix: Solid

Date Received: 11/19/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	124482	11/20/25 08:38	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124475	11/20/25 12:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			124565	11/20/25 12:41	SA	EET MID
Total/NA	Analysis	8015 NM		1			124548	11/20/25 08:34	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10.00 mL	124469	11/19/25 18:57	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124409	11/20/25 08:34	SA	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	124448	11/19/25 15:27	SA	EET MID
Soluble	Analysis	300.0		1			124480	11/20/25 09:46	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: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
SDG: 03C1558733

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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
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Method Summary

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
 SDG: 03C1558733

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: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9102-1
SDG: 03C1558733

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9102-1	SW 01	Solid	11/18/25 12:45	11/19/25 09:00	0-2.5
890-9102-2	SW 02	Solid	11/18/25 12:48	11/19/25 09:00	0-2.5
890-9102-3	SW 03	Solid	11/18/25 12:51	11/19/25 09:00	0-2.5
890-9102-4	SW 04	Solid	11/18/25 12:54	11/19/25 09:00	0-2.5
890-9102-5	SS07A	Solid	11/18/25 12:57	11/19/25 09:00	SURFACE

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9102-1

SDG Number: 03C1558733

Login Number: 9102

List Number: 1

Creator: Lopez, Abraham

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9102-1

SDG Number: 03C1558733

Login Number: 9102

List Source: Eurofins Midland

List Number: 2

List Creation: 11/20/25 07:51 AM

Creator: Lee, Randall

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

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Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tracy Hillard
Ensolum

601 N. Marienfeld St.
Suite 400

Midland, Texas 79701

Generated 11/25/2025 11:48:14 AM

JOB DESCRIPTION

JRU DI 8 ILLEGAL DUMP
03C1558733

JOB NUMBER

890-9129-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.



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
11/25/2025 11:48:14 AM

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

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Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Laboratory Job ID: 890-9129-1
SDG: 03C1558733

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Definitions/Glossary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1

Job ID: 890-9129-1

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Job Narrative 890-9129-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/21/2025 5:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS 55 (890-9129-1), FS 57 (890-9129-2), FS 51 (890-9129-3), FS 47 (890-9129-4), FS 49 (890-9129-5), FS 50 (890-9129-6), FS 19 (890-9129-7), FS 21 (890-9129-8), FS 24 (890-9129-9), FS 25 (890-9129-10), FS 27 (890-9129-11), FS 28 (890-9129-12), FS 29 (890-9129-13), FS 30 (890-9129-14), FS 32 (890-9129-15), FS 33 (890-9129-16) and FS 52 (890-9129-17).

GC VOA

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

Diesel Range Organics

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-9129-A-1-B MS) and (890-9129-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 55 (890-9129-1), FS 57 (890-9129-2), FS 51 (890-9129-3), FS 49 (890-9129-5), FS 50 (890-9129-6), FS 21 (890-9129-8), FS 24 (890-9129-9), FS 25 (890-9129-10), FS 27 (890-9129-11), FS 28 (890-9129-12), FS 29 (890-9129-13), FS 32 (890-9129-15), FS 33 (890-9129-16) and (LCSD 880-124942/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS 19 (890-9129-7) and FS 52 (890-9129-17). 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.

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 55

Lab Sample ID: 890-9129-1

Date Collected: 11/20/25 09:54

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 22:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 22:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 22:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/24/25 16:53	11/24/25 22:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 22:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/24/25 16:53	11/24/25 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	11/24/25 16:53	11/24/25 22:44	1
1,4-Difluorobenzene (Surr)	91		70 - 130	11/24/25 16:53	11/24/25 22:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/24/25 22:44	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			11/25/25 03:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 03:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 03:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	11/24/25 15:33	11/25/25 03:00	1
o-Terphenyl	136	S1+	70 - 130	11/24/25 15:33	11/25/25 03:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	179		9.94	mg/Kg			11/25/25 08:05	1

Client Sample ID: FS 57

Lab Sample ID: 890-9129-2

Date Collected: 11/20/25 10:35

Matrix: Solid

Date Received: 11/21/25 17:02

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		11/24/25 16:53	11/24/25 23:05	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/24/25 23:05	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/24/25 23:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/24/25 23:05	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/24/25 23:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/24/25 23:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	11/24/25 16:53	11/24/25 23:05	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

Client Sample ID: FS 57

Lab Sample ID: 890-9129-2

Date Collected: 11/20/25 10:35

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	11/24/25 16:53	11/24/25 23:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/24/25 23:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/25/25 03:45	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 03:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 03:45	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	11/24/25 15:33	11/25/25 03:45	1
o-Terphenyl	136	S1+	70 - 130	11/24/25 15:33	11/25/25 03:45	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		10.0	mg/Kg			11/25/25 08:23	1

Client Sample ID: FS 51

Lab Sample ID: 890-9129-3

Date Collected: 11/20/25 10:40

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/24/25 23:25	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/24/25 23:25	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/24/25 23:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/24/25 16:53	11/24/25 23:25	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/24/25 23:25	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/24/25 16:53	11/24/25 23:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/24/25 16:53	11/24/25 23:25	1
1,4-Difluorobenzene (Surr)	91		70 - 130	11/24/25 16:53	11/24/25 23:25	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			11/24/25 23:25	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			11/25/25 04:00	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 51

Lab Sample ID: 890-9129-3

Date Collected: 11/20/25 10:40

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2	mg/Kg		11/24/25 15:33	11/25/25 04:00	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2	mg/Kg		11/24/25 15:33	11/25/25 04:00	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		11/24/25 15:33	11/25/25 04:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			11/24/25 15:33	11/25/25 04:00	1
o-Terphenyl	136	S1+	70 - 130			11/24/25 15:33	11/25/25 04:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	555		9.98	mg/Kg			11/25/25 08:29	1

Client Sample ID: FS 47

Lab Sample ID: 890-9129-4

Date Collected: 11/20/25 12:10

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 23:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 23:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 23:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/24/25 16:53	11/24/25 23:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 23:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/24/25 16:53	11/24/25 23:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			11/24/25 16:53	11/24/25 23:46	1
1,4-Difluorobenzene (Surr)	91		70 - 130			11/24/25 16:53	11/24/25 23:46	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/24/25 23:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1	mg/Kg			11/25/25 04:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1	mg/Kg		11/24/25 15:33	11/25/25 04:16	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1	mg/Kg		11/24/25 15:33	11/25/25 04:16	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1	mg/Kg		11/24/25 15:33	11/25/25 04:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			11/24/25 15:33	11/25/25 04:16	1
o-Terphenyl	130		70 - 130			11/24/25 15:33	11/25/25 04:16	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 47

Lab Sample ID: 890-9129-4

Date Collected: 11/20/25 12:10

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.6		10.0	mg/Kg			11/25/25 08:35	1

Client Sample ID: FS 49

Lab Sample ID: 890-9129-5

Date Collected: 11/20/25 12:16

Matrix: Solid

Date Received: 11/21/25 17:02

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		11/24/25 16:53	11/25/25 00:06	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 00:06	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 00:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/25/25 00:06	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 00:06	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/25/25 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/24/25 16:53	11/25/25 00:06	1
1,4-Difluorobenzene (Surr)	92		70 - 130	11/24/25 16:53	11/25/25 00:06	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			11/25/25 00:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/25/25 04:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 04:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 04:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	11/24/25 15:33	11/25/25 04:31	1
o-Terphenyl	133	S1+	70 - 130	11/24/25 15:33	11/25/25 04:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		9.96	mg/Kg			11/25/25 08:41	1

Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 50

Lab Sample ID: 890-9129-6

Date Collected: 11/20/25 12:19

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 00:27	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 00:27	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 00:27	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/24/25 16:53	11/25/25 00:27	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 00:27	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/24/25 16:53	11/25/25 00:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			11/24/25 16:53	11/25/25 00:27	1
1,4-Difluorobenzene (Surr)	91		70 - 130			11/24/25 16:53	11/25/25 00:27	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/25/25 00:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/25/25 04:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 04:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 04:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 04:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130			11/24/25 15:33	11/25/25 04:47	1
o-Terphenyl	139	S1+	70 - 130			11/24/25 15:33	11/25/25 04:47	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	36.6		9.94	mg/Kg			11/25/25 08:58	1

Client Sample ID: FS 19

Lab Sample ID: 890-9129-7

Date Collected: 11/20/25 13:00

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 00:47	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 00:47	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 00:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/25/25 00:47	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 00:47	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/25/25 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			11/24/25 16:53	11/25/25 00:47	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 19

Lab Sample ID: 890-9129-7

Date Collected: 11/20/25 13:00

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	11/24/25 16:53	11/25/25 00:47	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			11/25/25 00:47	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/25/25 11:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 11:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 11:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130	11/24/25 15:33	11/25/25 11:12	1
o-Terphenyl	134	S1+	70 - 130	11/24/25 15:33	11/25/25 11:12	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29.6		10.1	mg/Kg			11/25/25 08:04	1

Client Sample ID: FS 21

Lab Sample ID: 890-9129-8

Date Collected: 11/20/25 13:03

Matrix: Solid

Date Received: 11/21/25 17:02

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		11/24/25 16:53	11/25/25 01:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/25/25 01:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/25/25 01:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/24/25 16:53	11/25/25 01:08	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/25/25 01:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/24/25 16:53	11/25/25 01:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	11/24/25 16:53	11/25/25 01:08	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/24/25 16:53	11/25/25 01:08	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/25/25 01:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	67.9		49.8	mg/Kg			11/25/25 08:28	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 21

Lab Sample ID: 890-9129-8

Date Collected: 11/20/25 13:03

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/24/25 15:33	11/25/25 08:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/24/25 15:33	11/25/25 08:28	1
Oil Range Organics (Over C28-C36)	67.9		49.8	mg/Kg		11/24/25 15:33	11/25/25 08:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	11/24/25 15:33	11/25/25 08:28	1
o-Terphenyl	225	S1+	70 - 130	11/24/25 15:33	11/25/25 08:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	381		10.1	mg/Kg			11/25/25 08:19	1

Client Sample ID: FS 24

Lab Sample ID: 890-9129-9

Date Collected: 11/20/25 13:06

Matrix: Solid

Date Received: 11/21/25 17:02

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		11/24/25 16:53	11/25/25 01:28	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/24/25 16:53	11/25/25 01:28	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/24/25 16:53	11/25/25 01:28	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/24/25 16:53	11/25/25 01:28	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/24/25 16:53	11/25/25 01:28	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/24/25 16:53	11/25/25 01:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/24/25 16:53	11/25/25 01:28	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/24/25 16:53	11/25/25 01:28	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			11/25/25 01:28	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			11/25/25 08:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 08:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 08:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 08:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	130		70 - 130	11/24/25 15:33	11/25/25 08:43	1
o-Terphenyl	137	S1+	70 - 130	11/24/25 15:33	11/25/25 08:43	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 24

Lab Sample ID: 890-9129-9

Date Collected: 11/20/25 13:06

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 3

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		10.1	mg/Kg			11/25/25 08:25	1

Client Sample ID: FS 25

Lab Sample ID: 890-9129-10

Date Collected: 11/20/25 13:09

Matrix: Solid

Date Received: 11/21/25 17:02

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		11/24/25 16:53	11/25/25 01:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/25/25 01:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/25/25 01:49	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/24/25 16:53	11/25/25 01:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/25/25 01:49	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/24/25 16:53	11/25/25 01:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			11/24/25 16:53	11/25/25 01:49	1
1,4-Difluorobenzene (Surr)	103		70 - 130			11/24/25 16:53	11/25/25 01:49	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/25/25 01:49	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			11/25/25 08:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 08:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 08:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 08:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130			11/24/25 15:33	11/25/25 08:58	1
o-Terphenyl	133	S1+	70 - 130			11/24/25 15:33	11/25/25 08:58	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	302		9.98	mg/Kg			11/25/25 08:30	1

Client Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

Client Sample ID: FS 27

Lab Sample ID: 890-9129-11

Date Collected: 11/20/25 13:12

Matrix: Solid

Date Received: 11/21/25 17:02

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		11/24/25 16:53	11/25/25 03:22	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 03:22	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 03:22	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/25/25 03:22	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 03:22	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/25/25 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	11/24/25 16:53	11/25/25 03:22	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/24/25 16:53	11/25/25 03:22	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/25/25 03:22	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/25/25 09:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 09:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 09:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 09:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130	11/24/25 15:33	11/25/25 09:27	1
o-Terphenyl	136	S1+	70 - 130	11/24/25 15:33	11/25/25 09:27	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	349		10.0	mg/Kg			11/25/25 08:35	1

Client Sample ID: FS 28

Lab Sample ID: 890-9129-12

Date Collected: 11/20/25 13:15

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 03:42	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 03:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 03:42	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/24/25 16:53	11/25/25 03:42	1
o-Xylene	0.00242		0.00202	mg/Kg		11/24/25 16:53	11/25/25 03:42	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/24/25 16:53	11/25/25 03:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	11/24/25 16:53	11/25/25 03:42	1

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Client Sample Results

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

Client Sample ID: FS 28

Lab Sample ID: 890-9129-12

Date Collected: 11/20/25 13:15

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	11/24/25 16:53	11/25/25 03:42	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			11/25/25 03:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/25/25 09:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 09:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 09:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 09:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130	11/24/25 15:33	11/25/25 09:42	1
o-Terphenyl	132	S1+	70 - 130	11/24/25 15:33	11/25/25 09:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		9.96	mg/Kg			11/25/25 08:51	1

Client Sample ID: FS 29

Lab Sample ID: 890-9129-13

Date Collected: 11/20/25 14:15

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/25/25 04:03	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/25/25 04:03	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/25/25 04:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/24/25 16:53	11/25/25 04:03	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/24/25 16:53	11/25/25 04:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/24/25 16:53	11/25/25 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	11/24/25 16:53	11/25/25 04:03	1
1,4-Difluorobenzene (Surr)	90		70 - 130	11/24/25 16:53	11/25/25 04:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/25/25 04:03	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/25/25 09:57	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 29

Lab Sample ID: 890-9129-13

Date Collected: 11/20/25 14:15

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/24/25 15:33	11/25/25 09:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/24/25 15:33	11/25/25 09:57	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/24/25 15:33	11/25/25 09:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	127		70 - 130			11/24/25 15:33	11/25/25 09:57	1
o-Terphenyl	135	S1+	70 - 130			11/24/25 15:33	11/25/25 09:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.9		10.0	mg/Kg			11/25/25 09:04	1

Client Sample ID: FS 30

Lab Sample ID: 890-9129-14

Date Collected: 11/20/25 14:18

Matrix: Solid

Date Received: 11/21/25 17:02

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		11/24/25 16:53	11/25/25 04:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/24/25 16:53	11/25/25 04:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/24/25 16:53	11/25/25 04:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/24/25 16:53	11/25/25 04:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/24/25 16:53	11/25/25 04:23	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/24/25 16:53	11/25/25 04:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			11/24/25 16:53	11/25/25 04:23	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/24/25 16:53	11/25/25 04:23	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			11/25/25 04:23	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			11/25/25 10:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		11/24/25 15:33	11/25/25 10:12	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/24/25 15:33	11/25/25 10:12	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/24/25 15:33	11/25/25 10:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			11/24/25 15:33	11/25/25 10:12	1
o-Terphenyl	125		70 - 130			11/24/25 15:33	11/25/25 10:12	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 30

Lab Sample ID: 890-9129-14

Date Collected: 11/20/25 14:18

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.98	U	9.98	mg/Kg			11/25/25 09:10	1

Client Sample ID: FS 32

Lab Sample ID: 890-9129-15

Date Collected: 11/20/25 14:24

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/25/25 04:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/25/25 04:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/25/25 04:44	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/24/25 16:53	11/25/25 04:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/25/25 04:44	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/24/25 16:53	11/25/25 04:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			11/24/25 16:53	11/25/25 04:44	1
1,4-Difluorobenzene (Surr)	92		70 - 130			11/24/25 16:53	11/25/25 04:44	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/25/25 04:44	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			11/25/25 10:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 10:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 10:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 10:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130			11/24/25 15:33	11/25/25 10:28	1
o-Terphenyl	131	S1+	70 - 130			11/24/25 15:33	11/25/25 10:28	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.1		10.0	mg/Kg			11/25/25 08:56	1

Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 33

Lab Sample ID: 890-9129-16

Date Collected: 11/20/25 14:27

Matrix: Solid

Date Received: 11/21/25 17:02

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		11/24/25 16:53	11/25/25 05:04	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 05:04	1
Ethylbenzene	0.00285		0.00201	mg/Kg		11/24/25 16:53	11/25/25 05:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/25/25 05:04	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/24/25 16:53	11/25/25 05:04	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/24/25 16:53	11/25/25 05:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			11/24/25 16:53	11/25/25 05:04	1
1,4-Difluorobenzene (Surr)	91		70 - 130			11/24/25 16:53	11/25/25 05:04	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			11/25/25 05:04	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			11/25/25 10:42	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 10:42	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 10:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/25 15:33	11/25/25 10:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			11/24/25 15:33	11/25/25 10:42	1
o-Terphenyl	135	S1+	70 - 130			11/24/25 15:33	11/25/25 10:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.3		9.90	mg/Kg			11/25/25 09:01	1

Client Sample ID: FS 52

Lab Sample ID: 890-9129-17

Date Collected: 11/20/25 14:30

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 05:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 05:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 05:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/24/25 16:53	11/25/25 05:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/24/25 16:53	11/25/25 05:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/24/25 16:53	11/25/25 05:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			11/24/25 16:53	11/25/25 05:25	1

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Client Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 52

Lab Sample ID: 890-9129-17

Date Collected: 11/20/25 14:30

Matrix: Solid

Date Received: 11/21/25 17:02

Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93		70 - 130	11/24/25 16:53	11/25/25 05:25	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			11/25/25 05:25	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			11/25/25 10:57	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 10:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 10:57	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/24/25 15:33	11/25/25 10:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	11/24/25 15:33	11/25/25 10:57	1
o-Terphenyl	141	S1+	70 - 130	11/24/25 15:33	11/25/25 10:57	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	78.8		10.1	mg/Kg			11/25/25 09:07	1

Surrogate Summary

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

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)
890-9129-1	FS 55	102	91
890-9129-1 MS	FS 55	109	105
890-9129-1 MSD	FS 55	101	102
890-9129-2	FS 57	103	97
890-9129-3	FS 51	101	91
890-9129-4	FS 47	96	91
890-9129-5	FS 49	99	92
890-9129-6	FS 50	100	91
890-9129-7	FS 19	93	91
890-9129-8	FS 21	102	95
890-9129-9	FS 24	99	94
890-9129-10	FS 25	105	103
890-9129-11	FS 27	97	93
890-9129-12	FS 28	102	92
890-9129-13	FS 29	100	90
890-9129-14	FS 30	102	99
890-9129-15	FS 32	102	92
890-9129-16	FS 33	106	91
890-9129-17	FS 52	105	93
LCS 880-124966/1-A	Lab Control Sample	98	101
LCSD 880-124966/2-A	Lab Control Sample Dup	99	102
MB 880-124844/5-A	Method Blank	107	88
MB 880-124966/5-A	Method Blank	106	92

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
890-9129-1	FS 55	128	136 S1+
890-9129-1 MS	FS 55	151 S1+	136 S1+
890-9129-1 MSD	FS 55	119	134 S1+
890-9129-2	FS 57	131 S1+	136 S1+
890-9129-3	FS 51	129	136 S1+
890-9129-4	FS 47	125	130
890-9129-5	FS 49	128	133 S1+
890-9129-6	FS 50	135 S1+	139 S1+
890-9129-7	FS 19	128	134 S1+
890-9129-8	FS 21	129	225 S1+
890-9129-9	FS 24	130	137 S1+
890-9129-10	FS 25	128	133 S1+
890-9129-11	FS 27	129	136 S1+
890-9129-12	FS 28	126	132 S1+
890-9129-13	FS 29	127	135 S1+
890-9129-14	FS 30	123	125

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Surrogate Summary

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

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)
890-9129-15	FS 32	125	131 S1+
890-9129-16	FS 33	129	135 S1+
890-9129-17	FS 52	133 S1+	141 S1+
LCS 880-124942/2-A	Lab Control Sample	89	80
LCSD 880-124942/3-A	Lab Control Sample Dup	63 S1-	72
MB 880-124942/1-A	Method Blank	72	75

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: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-124844/5-A
Matrix: Solid
Analysis Batch: 124847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124844

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		11/24/25 08:02	11/24/25 11:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/24/25 08:02	11/24/25 11:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/24/25 08:02	11/24/25 11:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/24/25 08:02	11/24/25 11:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/24/25 08:02	11/24/25 11:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/24/25 08:02	11/24/25 11:25	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	107		70 - 130			11/24/25 08:02	11/24/25 11:25	1
1,4-Difluorobenzene (Surr)	88		70 - 130			11/24/25 08:02	11/24/25 11:25	1

Lab Sample ID: MB 880-124966/5-A
Matrix: Solid
Analysis Batch: 124847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124966

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 22:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 22:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 22:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/24/25 16:53	11/24/25 22:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/24/25 16:53	11/24/25 22:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/24/25 16:53	11/24/25 22:22	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	106		70 - 130			11/24/25 16:53	11/24/25 22:22	1
1,4-Difluorobenzene (Surr)	92		70 - 130			11/24/25 16:53	11/24/25 22:22	1

Lab Sample ID: LCS 880-124966/1-A
Matrix: Solid
Analysis Batch: 124847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124966

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09655		mg/Kg		97	70 - 130
Toluene	0.100	0.08729		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.1881		mg/Kg		94	70 - 130
o-Xylene	0.100	0.1003		mg/Kg		100	70 - 130
Surrogate	LCS	LCS	Limits			%Recovery	
4-Bromofluorobenzene (Surr)	98		70 - 130				
1,4-Difluorobenzene (Surr)	101		70 - 130				

Lab Sample ID: LCSD 880-124966/2-A
Matrix: Solid
Analysis Batch: 124847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 124966

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.09902		mg/Kg		99	70 - 130	3	35

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QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

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

Lab Sample ID: LCSD 880-124966/2-A
 Matrix: Solid
 Analysis Batch: 124847

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 124966

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec		RPD	Limit
							Limits	RPD		
Toluene	0.100	0.09043		mg/Kg		90	70 - 130	4	35	
Ethylbenzene	0.100	0.1022		mg/Kg		102	70 - 130	0	35	
m-Xylene & p-Xylene	0.200	0.1917		mg/Kg		96	70 - 130	2	35	
o-Xylene	0.100	0.1014		mg/Kg		101	70 - 130	1	35	
		LCSD	LCSD							
Surrogate	%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)	99		70 - 130							
1,4-Difluorobenzene (Surr)	102		70 - 130							

Lab Sample ID: 890-9129-1 MS
 Matrix: Solid
 Analysis Batch: 124847

Client Sample ID: FS 55
 Prep Type: Total/NA
 Prep Batch: 124966

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec		Limit
									Limits	RPD	
Benzene	<0.00200	U	0.100	0.08422		mg/Kg		84	70 - 130		
Toluene	<0.00200	U	0.100	0.07491		mg/Kg		75	70 - 130		
Ethylbenzene	<0.00200	U	0.100	0.08673		mg/Kg		87	70 - 130		
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1605		mg/Kg		80	70 - 130		
o-Xylene	<0.00200	U	0.100	0.08464		mg/Kg		85	70 - 130		
		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	109		70 - 130								
1,4-Difluorobenzene (Surr)	105		70 - 130								

Lab Sample ID: 890-9129-1 MSD
 Matrix: Solid
 Analysis Batch: 124847

Client Sample ID: FS 55
 Prep Type: Total/NA
 Prep Batch: 124966

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec		Limit
									Limits	RPD	
Benzene	<0.00200	U	0.100	0.09513		mg/Kg		95	70 - 130	12	35
Toluene	<0.00200	U	0.100	0.08603		mg/Kg		86	70 - 130	14	35
Ethylbenzene	<0.00200	U	0.100	0.09766		mg/Kg		98	70 - 130	12	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1816		mg/Kg		91	70 - 130	12	35
o-Xylene	<0.00200	U	0.100	0.09294		mg/Kg		93	70 - 130	9	35
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	101		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

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

Lab Sample ID: MB 880-124942/1-A
 Matrix: Solid
 Analysis Batch: 124860

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 124942

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/24/25 15:32	11/25/25 01:59	1

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QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

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

Lab Sample ID: MB 880-124942/1-A
 Matrix: Solid
 Analysis Batch: 124860

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 124942

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		11/24/25 15:32	11/25/25 01:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/24/25 15:32	11/25/25 01:59	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1-Chlorooctane	72		70 - 130	11/24/25 15:32	11/25/25 01:59	1
o-Terphenyl	75		70 - 130	11/24/25 15:32	11/25/25 01:59	1

Lab Sample ID: LCS 880-124942/2-A
 Matrix: Solid
 Analysis Batch: 124860

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 124942

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	1000	849.4		mg/Kg		85	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	89		70 - 130
o-Terphenyl	80		70 - 130

Lab Sample ID: LCSD 880-124942/3-A
 Matrix: Solid
 Analysis Batch: 124860

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 124942

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	936.1		mg/Kg		94	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	883.4		mg/Kg		88	70 - 130	4	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	63	S1-	70 - 130
o-Terphenyl	72		70 - 130

Lab Sample ID: 890-9129-1 MS
 Matrix: Solid
 Analysis Batch: 124860

Client Sample ID: FS 55
 Prep Type: Total/NA
 Prep Batch: 124942

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	776.3		mg/Kg		78	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	151	S1+	70 - 130
o-Terphenyl	136	S1+	70 - 130

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QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

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

Lab Sample ID: 890-9129-1 MSD
 Matrix: Solid
 Analysis Batch: 124860

Client Sample ID: FS 55
 Prep Type: Total/NA
 Prep Batch: 124942

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	894.6		mg/Kg		87	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	815.7		mg/Kg		82	70 - 130	5	20
Surrogate	%Recovery	MSD Qualifier									Limits
1-Chlorooctane	119										70 - 130
o-Terphenyl	134	S1+									70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-124960/1-A
 Matrix: Solid
 Analysis Batch: 124985

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			11/25/25 07:48	1

Lab Sample ID: LCS 880-124960/2-A
 Matrix: Solid
 Analysis Batch: 124985

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	225.4		mg/Kg		90	90 - 110

Lab Sample ID: LCSD 880-124960/3-A
 Matrix: Solid
 Analysis Batch: 124985

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	228.5		mg/Kg		91	90 - 110	1	20

Lab Sample ID: 890-9129-1 MS
 Matrix: Solid
 Analysis Batch: 124985

Client Sample ID: FS 55
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	179		249	423.5		mg/Kg		99	90 - 110

Lab Sample ID: 890-9129-1 MSD
 Matrix: Solid
 Analysis Batch: 124985

Client Sample ID: FS 55
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	179		249	415.9		mg/Kg		96	90 - 110	2	20

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QC Sample Results

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-124961/1-A
 Matrix: Solid
 Analysis Batch: 124986

Client Sample ID: Method Blank
 Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0	mg/Kg			11/25/25 07:38	1

Lab Sample ID: LCS 880-124961/2-A
 Matrix: Solid
 Analysis Batch: 124986

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	233.9		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-124961/3-A
 Matrix: Solid
 Analysis Batch: 124986

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	234.7		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 890-9129-7 MS
 Matrix: Solid
 Analysis Batch: 124986

Client Sample ID: FS 19
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	29.6		252	264.3		mg/Kg		93	90 - 110

Lab Sample ID: 890-9129-7 MSD
 Matrix: Solid
 Analysis Batch: 124986

Client Sample ID: FS 19
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29.6		252	265.3		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

GC VOA

Prep Batch: 124844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-124844/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 124847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-1	FS 55	Total/NA	Solid	8021B	124966
890-9129-2	FS 57	Total/NA	Solid	8021B	124966
890-9129-3	FS 51	Total/NA	Solid	8021B	124966
890-9129-4	FS 47	Total/NA	Solid	8021B	124966
890-9129-5	FS 49	Total/NA	Solid	8021B	124966
890-9129-6	FS 50	Total/NA	Solid	8021B	124966
890-9129-7	FS 19	Total/NA	Solid	8021B	124966
890-9129-8	FS 21	Total/NA	Solid	8021B	124966
890-9129-9	FS 24	Total/NA	Solid	8021B	124966
890-9129-10	FS 25	Total/NA	Solid	8021B	124966
890-9129-11	FS 27	Total/NA	Solid	8021B	124966
890-9129-12	FS 28	Total/NA	Solid	8021B	124966
890-9129-13	FS 29	Total/NA	Solid	8021B	124966
890-9129-14	FS 30	Total/NA	Solid	8021B	124966
890-9129-15	FS 32	Total/NA	Solid	8021B	124966
890-9129-16	FS 33	Total/NA	Solid	8021B	124966
890-9129-17	FS 52	Total/NA	Solid	8021B	124966
MB 880-124844/5-A	Method Blank	Total/NA	Solid	8021B	124844
MB 880-124966/5-A	Method Blank	Total/NA	Solid	8021B	124966
LCS 880-124966/1-A	Lab Control Sample	Total/NA	Solid	8021B	124966
LCSD 880-124966/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	124966
890-9129-1 MS	FS 55	Total/NA	Solid	8021B	124966
890-9129-1 MSD	FS 55	Total/NA	Solid	8021B	124966

Prep Batch: 124966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-1	FS 55	Total/NA	Solid	5035	
890-9129-2	FS 57	Total/NA	Solid	5035	
890-9129-3	FS 51	Total/NA	Solid	5035	
890-9129-4	FS 47	Total/NA	Solid	5035	
890-9129-5	FS 49	Total/NA	Solid	5035	
890-9129-6	FS 50	Total/NA	Solid	5035	
890-9129-7	FS 19	Total/NA	Solid	5035	
890-9129-8	FS 21	Total/NA	Solid	5035	
890-9129-9	FS 24	Total/NA	Solid	5035	
890-9129-10	FS 25	Total/NA	Solid	5035	
890-9129-11	FS 27	Total/NA	Solid	5035	
890-9129-12	FS 28	Total/NA	Solid	5035	
890-9129-13	FS 29	Total/NA	Solid	5035	
890-9129-14	FS 30	Total/NA	Solid	5035	
890-9129-15	FS 32	Total/NA	Solid	5035	
890-9129-16	FS 33	Total/NA	Solid	5035	
890-9129-17	FS 52	Total/NA	Solid	5035	
MB 880-124966/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-124966/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-124966/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-9129-1 MS	FS 55	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

GC VOA (Continued)

Prep Batch: 124966 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-1 MSD	FS 55	Total/NA	Solid	5035	

Analysis Batch: 125017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-1	FS 55	Total/NA	Solid	Total BTEX	
890-9129-2	FS 57	Total/NA	Solid	Total BTEX	
890-9129-3	FS 51	Total/NA	Solid	Total BTEX	
890-9129-4	FS 47	Total/NA	Solid	Total BTEX	
890-9129-5	FS 49	Total/NA	Solid	Total BTEX	
890-9129-6	FS 50	Total/NA	Solid	Total BTEX	
890-9129-7	FS 19	Total/NA	Solid	Total BTEX	
890-9129-8	FS 21	Total/NA	Solid	Total BTEX	
890-9129-9	FS 24	Total/NA	Solid	Total BTEX	
890-9129-10	FS 25	Total/NA	Solid	Total BTEX	
890-9129-11	FS 27	Total/NA	Solid	Total BTEX	
890-9129-12	FS 28	Total/NA	Solid	Total BTEX	
890-9129-13	FS 29	Total/NA	Solid	Total BTEX	
890-9129-14	FS 30	Total/NA	Solid	Total BTEX	
890-9129-15	FS 32	Total/NA	Solid	Total BTEX	
890-9129-16	FS 33	Total/NA	Solid	Total BTEX	
890-9129-17	FS 52	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 124860

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-1	FS 55	Total/NA	Solid	8015B NM	124942
890-9129-2	FS 57	Total/NA	Solid	8015B NM	124942
890-9129-3	FS 51	Total/NA	Solid	8015B NM	124942
890-9129-4	FS 47	Total/NA	Solid	8015B NM	124942
890-9129-5	FS 49	Total/NA	Solid	8015B NM	124942
890-9129-6	FS 50	Total/NA	Solid	8015B NM	124942
890-9129-7	FS 19	Total/NA	Solid	8015B NM	124942
890-9129-8	FS 21	Total/NA	Solid	8015B NM	124942
890-9129-9	FS 24	Total/NA	Solid	8015B NM	124942
890-9129-10	FS 25	Total/NA	Solid	8015B NM	124942
890-9129-11	FS 27	Total/NA	Solid	8015B NM	124942
890-9129-12	FS 28	Total/NA	Solid	8015B NM	124942
890-9129-13	FS 29	Total/NA	Solid	8015B NM	124942
890-9129-14	FS 30	Total/NA	Solid	8015B NM	124942
890-9129-15	FS 32	Total/NA	Solid	8015B NM	124942
890-9129-16	FS 33	Total/NA	Solid	8015B NM	124942
890-9129-17	FS 52	Total/NA	Solid	8015B NM	124942
MB 880-124942/1-A	Method Blank	Total/NA	Solid	8015B NM	124942
LCS 880-124942/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	124942
LCSD 880-124942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	124942
890-9129-1 MS	FS 55	Total/NA	Solid	8015B NM	124942
890-9129-1 MSD	FS 55	Total/NA	Solid	8015B NM	124942

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QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

GC Semi VOA

Prep Batch: 124942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-1	FS 55	Total/NA	Solid	8015NM Prep	
890-9129-2	FS 57	Total/NA	Solid	8015NM Prep	
890-9129-3	FS 51	Total/NA	Solid	8015NM Prep	
890-9129-4	FS 47	Total/NA	Solid	8015NM Prep	
890-9129-5	FS 49	Total/NA	Solid	8015NM Prep	
890-9129-6	FS 50	Total/NA	Solid	8015NM Prep	
890-9129-7	FS 19	Total/NA	Solid	8015NM Prep	
890-9129-8	FS 21	Total/NA	Solid	8015NM Prep	
890-9129-9	FS 24	Total/NA	Solid	8015NM Prep	
890-9129-10	FS 25	Total/NA	Solid	8015NM Prep	
890-9129-11	FS 27	Total/NA	Solid	8015NM Prep	
890-9129-12	FS 28	Total/NA	Solid	8015NM Prep	
890-9129-13	FS 29	Total/NA	Solid	8015NM Prep	
890-9129-14	FS 30	Total/NA	Solid	8015NM Prep	
890-9129-15	FS 32	Total/NA	Solid	8015NM Prep	
890-9129-16	FS 33	Total/NA	Solid	8015NM Prep	
890-9129-17	FS 52	Total/NA	Solid	8015NM Prep	
MB 880-124942/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-124942/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-124942/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-9129-1 MS	FS 55	Total/NA	Solid	8015NM Prep	
890-9129-1 MSD	FS 55	Total/NA	Solid	8015NM Prep	

Analysis Batch: 125059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-1	FS 55	Total/NA	Solid	8015 NM	
890-9129-2	FS 57	Total/NA	Solid	8015 NM	
890-9129-3	FS 51	Total/NA	Solid	8015 NM	
890-9129-4	FS 47	Total/NA	Solid	8015 NM	
890-9129-5	FS 49	Total/NA	Solid	8015 NM	
890-9129-6	FS 50	Total/NA	Solid	8015 NM	
890-9129-7	FS 19	Total/NA	Solid	8015 NM	
890-9129-8	FS 21	Total/NA	Solid	8015 NM	
890-9129-9	FS 24	Total/NA	Solid	8015 NM	
890-9129-10	FS 25	Total/NA	Solid	8015 NM	
890-9129-11	FS 27	Total/NA	Solid	8015 NM	
890-9129-12	FS 28	Total/NA	Solid	8015 NM	
890-9129-13	FS 29	Total/NA	Solid	8015 NM	
890-9129-14	FS 30	Total/NA	Solid	8015 NM	
890-9129-15	FS 32	Total/NA	Solid	8015 NM	
890-9129-16	FS 33	Total/NA	Solid	8015 NM	
890-9129-17	FS 52	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 124960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-1	FS 55	Soluble	Solid	DI Leach	
890-9129-2	FS 57	Soluble	Solid	DI Leach	
890-9129-3	FS 51	Soluble	Solid	DI Leach	
890-9129-4	FS 47	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

HPLC/IC (Continued)

Leach Batch: 124960 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-5	FS 49	Soluble	Solid	DI Leach	
890-9129-6	FS 50	Soluble	Solid	DI Leach	
890-9129-13	FS 29	Soluble	Solid	DI Leach	
890-9129-14	FS 30	Soluble	Solid	DI Leach	
MB 880-124960/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-124960/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-124960/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9129-1 MS	FS 55	Soluble	Solid	DI Leach	
890-9129-1 MSD	FS 55	Soluble	Solid	DI Leach	

Leach Batch: 124961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-7	FS 19	Soluble	Solid	DI Leach	
890-9129-8	FS 21	Soluble	Solid	DI Leach	
890-9129-9	FS 24	Soluble	Solid	DI Leach	
890-9129-10	FS 25	Soluble	Solid	DI Leach	
890-9129-11	FS 27	Soluble	Solid	DI Leach	
890-9129-12	FS 28	Soluble	Solid	DI Leach	
890-9129-15	FS 32	Soluble	Solid	DI Leach	
890-9129-16	FS 33	Soluble	Solid	DI Leach	
890-9129-17	FS 52	Soluble	Solid	DI Leach	
MB 880-124961/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-124961/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-124961/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-9129-7 MS	FS 19	Soluble	Solid	DI Leach	
890-9129-7 MSD	FS 19	Soluble	Solid	DI Leach	

Analysis Batch: 124985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-1	FS 55	Soluble	Solid	300.0	124960
890-9129-2	FS 57	Soluble	Solid	300.0	124960
890-9129-3	FS 51	Soluble	Solid	300.0	124960
890-9129-4	FS 47	Soluble	Solid	300.0	124960
890-9129-5	FS 49	Soluble	Solid	300.0	124960
890-9129-6	FS 50	Soluble	Solid	300.0	124960
890-9129-13	FS 29	Soluble	Solid	300.0	124960
890-9129-14	FS 30	Soluble	Solid	300.0	124960
MB 880-124960/1-A	Method Blank	Soluble	Solid	300.0	124960
LCS 880-124960/2-A	Lab Control Sample	Soluble	Solid	300.0	124960
LCSD 880-124960/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	124960
890-9129-1 MS	FS 55	Soluble	Solid	300.0	124960
890-9129-1 MSD	FS 55	Soluble	Solid	300.0	124960

Analysis Batch: 124986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-7	FS 19	Soluble	Solid	300.0	124961
890-9129-8	FS 21	Soluble	Solid	300.0	124961
890-9129-9	FS 24	Soluble	Solid	300.0	124961
890-9129-10	FS 25	Soluble	Solid	300.0	124961
890-9129-11	FS 27	Soluble	Solid	300.0	124961
890-9129-12	FS 28	Soluble	Solid	300.0	124961

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QC Association Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

HPLC/IC (Continued)

Analysis Batch: 124986 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-9129-15	FS 32	Soluble	Solid	300.0	124961
890-9129-16	FS 33	Soluble	Solid	300.0	124961
890-9129-17	FS 52	Soluble	Solid	300.0	124961
MB 880-124961/1-A	Method Blank	Soluble	Solid	300.0	124961
LCS 880-124961/2-A	Lab Control Sample	Soluble	Solid	300.0	124961
LCSD 880-124961/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	124961
890-9129-7 MS	FS 19	Soluble	Solid	300.0	124961
890-9129-7 MSD	FS 19	Soluble	Solid	300.0	124961

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- 14

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 55

Lab Sample ID: 890-9129-1

Date Collected: 11/20/25 09:54

Matrix: Solid

Date Received: 11/21/25 17:02

Prep 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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/24/25 22:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/24/25 22:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 03:00	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 03:00	FC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	124960	11/24/25 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			124985	11/25/25 08:05	CS	EET MID

Client Sample ID: FS 57

Lab Sample ID: 890-9129-2

Date Collected: 11/20/25 10:35

Matrix: Solid

Date Received: 11/21/25 17:02

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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/24/25 23:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/24/25 23:05	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 03:45	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 03:45	FC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	124960	11/24/25 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			124985	11/25/25 08:23	CS	EET MID

Client Sample ID: FS 51

Lab Sample ID: 890-9129-3

Date Collected: 11/20/25 10:40

Matrix: Solid

Date Received: 11/21/25 17:02

Prep 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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/24/25 23:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/24/25 23:25	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 04:00	SA	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 04:00	FC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	124960	11/24/25 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			124985	11/25/25 08:29	CS	EET MID

Client Sample ID: FS 47

Lab Sample ID: 890-9129-4

Date Collected: 11/20/25 12:10

Matrix: Solid

Date Received: 11/21/25 17:02

Prep 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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/24/25 23:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/24/25 23:46	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 47
 Date Collected: 11/20/25 12:10
 Date Received: 11/21/25 17:02

Lab Sample ID: 890-9129-4
 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			125059	11/25/25 04:16	SA	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 04:16	FC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	124960	11/24/25 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			124985	11/25/25 08:35	CS	EET MID

Client Sample ID: FS 49
 Date Collected: 11/20/25 12:16
 Date Received: 11/21/25 17:02

Lab Sample ID: 890-9129-5
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 00:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 00:06	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 04:31	SA	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 04:31	FC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	124960	11/24/25 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			124985	11/25/25 08:41	CS	EET MID

Client Sample ID: FS 50
 Date Collected: 11/20/25 12:19
 Date Received: 11/21/25 17:02

Lab Sample ID: 890-9129-6
 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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 00:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 00:27	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 04:47	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 04:47	FC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	124960	11/24/25 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			124985	11/25/25 08:58	CS	EET MID

Client Sample ID: FS 19
 Date Collected: 11/20/25 13:00
 Date Received: 11/21/25 17:02

Lab Sample ID: 890-9129-7
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 00:47	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 11:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 11:12	FC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 19
 Date Collected: 11/20/25 13:00
 Date Received: 11/21/25 17:02

Lab Sample ID: 890-9129-7
 Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	124961	11/24/25 16:47	SMC	EET MID
Soluble	Analysis	300.0		1			124986	11/25/25 08:04	CS	EET MID

Client Sample ID: FS 21
 Date Collected: 11/20/25 13:03
 Date Received: 11/21/25 17:02

Lab Sample ID: 890-9129-8
 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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 01:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 01:08	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 08:28	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 08:28	FC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	124961	11/24/25 16:47	SMC	EET MID
Soluble	Analysis	300.0		1			124986	11/25/25 08:19	CS	EET MID

Client Sample ID: FS 24
 Date Collected: 11/20/25 13:06
 Date Received: 11/21/25 17:02

Lab Sample ID: 890-9129-9
 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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 01:28	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 08:43	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 08:43	FC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	124961	11/24/25 16:47	SMC	EET MID
Soluble	Analysis	300.0		1			124986	11/25/25 08:25	CS	EET MID

Client Sample ID: FS 25
 Date Collected: 11/20/25 13:09
 Date Received: 11/21/25 17:02

Lab Sample ID: 890-9129-10
 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			5.01 g	5 mL	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 01:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 01:49	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 08:58	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 08:58	FC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	124961	11/24/25 16:47	SMC	EET MID
Soluble	Analysis	300.0		1			124986	11/25/25 08:30	CS	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 27

Lab Sample ID: 890-9129-11

Date Collected: 11/20/25 13:12

Matrix: Solid

Date Received: 11/21/25 17:02

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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 03:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 03:22	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 09:27	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 09:27	FC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	124961	11/24/25 16:47	SMC	EET MID
Soluble	Analysis	300.0		1			124986	11/25/25 08:35	CS	EET MID

Client Sample ID: FS 28

Lab Sample ID: 890-9129-12

Date Collected: 11/20/25 13:15

Matrix: Solid

Date Received: 11/21/25 17:02

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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 03:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 03:42	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 09:42	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 09:42	FC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	124961	11/24/25 16:47	SMC	EET MID
Soluble	Analysis	300.0		1			124986	11/25/25 08:51	CS	EET MID

Client Sample ID: FS 29

Lab Sample ID: 890-9129-13

Date Collected: 11/20/25 14:15

Matrix: Solid

Date Received: 11/21/25 17:02

Prep 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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 04:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 04:03	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 09:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 09:57	FC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	124960	11/24/25 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			124985	11/25/25 09:04	CS	EET MID

Client Sample ID: FS 30

Lab Sample ID: 890-9129-14

Date Collected: 11/20/25 14:18

Matrix: Solid

Date Received: 11/21/25 17:02

Prep 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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 04:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 04:23	SA	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
 Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
 SDG: 03C1558733

Client Sample ID: FS 30

Lab Sample ID: 890-9129-14

Date Collected: 11/20/25 14:18

Matrix: Solid

Date Received: 11/21/25 17:02

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			125059	11/25/25 10:12	SA	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 10:12	FC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	124960	11/24/25 16:44	SMC	EET MID
Soluble	Analysis	300.0		1			124985	11/25/25 09:10	CS	EET MID

Client Sample ID: FS 32

Lab Sample ID: 890-9129-15

Date Collected: 11/20/25 14:24

Matrix: Solid

Date Received: 11/21/25 17:02

Prep 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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 04:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 04:44	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 10:28	SA	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 10:28	FC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	124961	11/24/25 16:47	SMC	EET MID
Soluble	Analysis	300.0		1			124986	11/25/25 08:56	CS	EET MID

Client Sample ID: FS 33

Lab Sample ID: 890-9129-16

Date Collected: 11/20/25 14:27

Matrix: Solid

Date Received: 11/21/25 17:02

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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 05:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 05:04	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 10:42	SA	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 10:42	FC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	124961	11/24/25 16:47	SMC	EET MID
Soluble	Analysis	300.0		1			124986	11/25/25 09:01	CS	EET MID

Client Sample ID: FS 52

Lab Sample ID: 890-9129-17

Date Collected: 11/20/25 14:30

Matrix: Solid

Date Received: 11/21/25 17:02

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	124966	11/24/25 16:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	124847	11/25/25 05:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			125017	11/25/25 05:25	SA	EET MID
Total/NA	Analysis	8015 NM		1			125059	11/25/25 10:57	SA	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10.00 mL	124942	11/24/25 15:33	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	124860	11/25/25 10:57	FC	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

Client Sample ID: FS 52

Lab Sample ID: 890-9129-17

Date Collected: 11/20/25 14:30

Matrix: Solid

Date Received: 11/21/25 17:02

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	124961	11/24/25 16:47	SMC	EET MID
Soluble	Analysis	300.0		1			124986	11/25/25 09:07	CS	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-26

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

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

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Method Summary

Client: Ensolum
Project/Site: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

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: JRU DI 8 ILLEGAL DUMP

Job ID: 890-9129-1
SDG: 03C1558733

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-9129-1	FS 55	Solid	11/20/25 09:54	11/21/25 17:02	1
890-9129-2	FS 57	Solid	11/20/25 10:35	11/21/25 17:02	1
890-9129-3	FS 51	Solid	11/20/25 10:40	11/21/25 17:02	1
890-9129-4	FS 47	Solid	11/20/25 12:10	11/21/25 17:02	1
890-9129-5	FS 49	Solid	11/20/25 12:16	11/21/25 17:02	1
890-9129-6	FS 50	Solid	11/20/25 12:19	11/21/25 17:02	1
890-9129-7	FS 19	Solid	11/20/25 13:00	11/21/25 17:02	3
890-9129-8	FS 21	Solid	11/20/25 13:03	11/21/25 17:02	3
890-9129-9	FS 24	Solid	11/20/25 13:06	11/21/25 17:02	3
890-9129-10	FS 25	Solid	11/20/25 13:09	11/21/25 17:02	3
890-9129-11	FS 27	Solid	11/20/25 13:12	11/21/25 17:02	1
890-9129-12	FS 28	Solid	11/20/25 13:15	11/21/25 17:02	1
890-9129-13	FS 29	Solid	11/20/25 14:15	11/21/25 17:02	1
890-9129-14	FS 30	Solid	11/20/25 14:18	11/21/25 17:02	1
890-9129-15	FS 32	Solid	11/20/25 14:24	11/21/25 17:02	1
890-9129-16	FS 33	Solid	11/20/25 14:27	11/21/25 17:02	1
890-9129-17	FS 52	Solid	11/20/25 14:30	11/21/25 17:02	3

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Chain of Custody

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

Environment Testing
Xenco



Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager: **Tacy Hillard** Bill to: (if different) **Attn: Robert Woodall**

Company Name: **Euromet, 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: **575-937-3406** Email: **ktompson@euromet.com + hillartense@euromet.com**

Program: UST/PST PRP Brownfields RRC Superfund

State of Project: Level II Level III Level IV

Reporting: Level II Level III Level IV

Deliverables: EDD ADAPT Other:

Project Name: **JRV DIBI Illegal Dump** Turn Around: Routine Rush

Project Number: **0321558733** Rush Date: **24th**

Project Location: **37.3413056, -107.854366** TAT starts the day received by the lab, if received by 4:30pm

Sampler's Name: **EVAN ROE**

P.O. #:

SAMPLE RECEIPT

Samples Received Intact: Yes No

Cooler Custody Seals: Yes No

Sample Custody Seals: Yes No

Total Containers: **2**

Temp Blank: Yes No

Wet Ice: Yes No

Thermometer ID: **7MM007**

Correction Factor: **-0.2**

Temperature Reading: **2.4**

Corrected Temperature: **2.2**

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters		Pres. Code	ANALYSIS REQUEST	Preservative Codes
							Yes	No			
F555	S	11/20/25	0954	1	C	1				None: NO Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP	DI Water: H ₂ O MeOH: Me HNO ₃ : HN NaOH: Na
F557	S		1035	1		1					
F551	S		1040	1		1					
F547	S		1210	1		1					
F544	S		1216	1		1					
F550	S		1219	1		1					
F519	S		1300	3		3					
F521	S		1303	3		3					
F526	S		1306	3		3					
F525	S		1309	3		3					

Total 2007/6010 2008/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn

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

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>	11/20/25 1702			

Revised Date: 08/25/2020 Rev. 2020.2



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

Environment Testing
 Xenco

Work Order No:

www.xenco.com Page 2 of 2

Work Order Comments

Program: UST/PST PRP Brownfields RRC Superfund

State of Project: Level II Level III PST/AUST TRRP Level IV

Reporting: Level II Level III PST/AUST TRRP Level IV

Deliverables: EDD ADAPT Other:

Project Manager: Tacey Hillaci

Company Name: EASOL/M, LLC

Address: 3122 Northval Pkwy Hwy

City, State ZIP: Carlsbad, NM 88220

Phone: 575-937-3406

Bill to: (if different) ATTA: Robert Wendall

Company Name: XTO Energy

Address: 3104 E. Greene St

City, State ZIP: Carlsbad, NM 88220

Email: Kthompson@xencotesting.com

Project Name: JRV DI 8 IEGal Dump

Project Number: 03138733

Project Location: 32.3413056, -107.854749

Sampler's Name: EVAN ROE

P.O. #:

Turn Around: Routine Rush

Temp. Blank: Yes No Wet Ice: Yes No

Samples Received Intact: Yes No Thermometer ID: T-1000

Cooler Custody Seals: Yes No Correction Factor: -0.2

Sample Custody Seals: Yes No Temperature Reading: 2.0

Total Containers: Corrected Temperature: 2.2

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	Parameters		Preservative Codes
						Grab/Comp	# of Cont	
F527	S	11/20/25	1312	1	C	BTX	✓	None: NO DI Water: H ₂ O Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SACP
F528	S	11/20/25	1315	1	C	BTX	✓	CC: 2109421001
F529	S	11/20/25	1415	1	C	BTX	✓	GFEM: 48605000
F530	S	11/20/25	1418	1	C	BTX	✓	
F532	S	11/20/25	1424	1	C	BTX	✓	
F533	S	11/20/25	1427	1	C	BTX	✓	
F552	R	11/20/25	1426	3	C	BTX	✓	

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 Tl Sn U V Zn

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	11/25/25 17:02	2
			4
			6

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9129-1

SDG Number: 03C1558733

Login Number: 9129

List Number: 1

Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-9129-1

SDG Number: 03C1558733

Login Number: 9129

List Source: Eurofins Midland

List Number: 2

List Creation: 11/25/25 07:10 AM

Creator: Laing, Edmundo

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

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APPENDIX F

Spill Volume Calculation

Location:	JRU Illegal Dump	
Spill Date:	8/25/2025	
Incident #:	nAPP2524549272	
Area 1		
Approximate Area =	9784	sq. ft.
Average Saturation (or depth) of spill =	0.75	inches
Average Porosity Factor =	0.20	
VOLUME OF LEAK		
Total Crude Oil =	52.00	bbls
Total Produced Water =		bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	52.00	bbls
Total Produced Water =		bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	30.00	bbls
Total Produced Water =		bbls

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 501973

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 501973
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2524549272
Incident Name	NAPP2524549272 JRU DI 8 SUBSTATION (ILLEGAL DUMP) @ 0
Incident Type	Release Other
Incident Status	Initial C-141 Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	JRU DI 8 Substation (Illegal Dump)
Date Release Discovered	08/25/2025
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Release Other
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Vandalism Truck Crude Oil Released: 52 BBL Recovered: 30 BBL Lost: 22 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 501973

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 501973
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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: Ashley McAfee Email: ashley.a.mcafee@exxonmobil.com Date: 09/02/2025
--	--

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

QUESTIONS, Page 3

Action 501973

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 501973
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

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	No
<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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CONDITIONS

Action 501973

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 501973
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	9/3/2025

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QUESTIONS

Action 539568

QUESTIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 539568
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2524549272
Incident Name	NAPP2524549272 JRU DI 8 SUBSTATION (ILLEGAL DUMP) @ L-02-23S-30E
Incident Type	Release Other
Incident Status	Remediation Closure Report Received

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	JRU DI 8 SUBSTATION (ILLEGAL DUMP)
Date Release Discovered	08/25/2025
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Release Other
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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Cause: Vandalism Truck Crude Oil Released: 52 BBL Recovered: 30 BBL Lost: 22 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 539568

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 539568
	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	<i>Not answered.</i>

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: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 01/02/2026
--	--

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QUESTIONS, Page 3

Action 539568

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 539568
	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 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	2880
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	492
GRO+DRO (EPA SW-846 Method 8015M)	413
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	09/25/2025
On what date will (or did) the final sampling or liner inspection occur	02/28/2026
On what date will (or was) the remediation complete(d)	02/28/2026
What is the estimated surface area (in square feet) that will be reclaimed	12335
What is the estimated volume (in cubic yards) that will be reclaimed	825
What is the estimated surface area (in square feet) that will be remediated	12335
What is the estimated volume (in cubic yards) that will be remediated	825

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 539568

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 539568
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 01/02/2026
--	---

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 5

Action 539568

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 539568
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 539568

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 539568
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	528094
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/26/2025
What was the (estimated) number of samples that were to be gathered	50
What was the sampling surface area in square feet	10000

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	12335
What was the total volume (cubic yards) remediated	825
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	12335
What was the total volume (in cubic yards) reclaimed	825
Summarize any additional remediation activities not included by answers (above)	Excavation activities were conducted at the Site as indicated in the Work Plan to address the August 2025 illegal dump of crude oil. Laboratory analytical results for all excavation soil samples collected indicate COC concentrations 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. Excavation of soil has mitigated 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 closure for Incident Number nAPP2524549272.

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: Richard Kotzur Title: Senior Project Manager Email: NMEnvNotifications@exxonmobil.com Date: 01/02/2026
--	---

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QUESTIONS, Page 7

Action 539568

QUESTIONS (continued)

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 539568
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 539568

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 539568
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	2/5/2026