



January 27, 2026

New Mexico Oil Conservation Division

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

**Re: Closure Request Addendum
PLU 89 SWD
Incident Number nRM1932350962
Eddy County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of XTO Energy, Inc. (XTO), has prepared the following addendum to the original *Closure Request* submitted on January 6, 2020. This addendum details the additional remediation activities completed at the PLU 89 (Site) in response to the denial of the original *Closure Request* by the New Mexico Oil Conservation Division (NMOCD), dated April 17, 2020. In the denial, NMOCD expressed concern about soil exceeding the reclamation requirement for chlorides in the top 4 feet of a pipeline right-of-way (ROW). Based on the additional remediation activities described below, XTO is submitting this *Closure Request Addendum (Addendum)* and requesting closure for Incident Number nRM1932350962.

RELEASE BACKGROUND

The release is associated with the PLU 89 Pad located in Unit G, Section 25, Township 24 South, Range 30 East, in Eddy County, New Mexico. However the actual location of the release is to the southeast along a pipeline ROW (32.188695°, -103.829938°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management.

On October 8, 2019, an 8-inch transfer line was struck while excavating for equipment upgrades, causing crude oil and produced water release in the excavation area and along the pipeline ROW. Approximately 7.04 barrels (bbls) of crude oil and 1,401.2 bbls of produced water were released from the 8-inch transfer line. A vacuum truck was used to recover approximately 6.6 bbls of crude oil and approximately 1,313.4 bbls of produced water. XTO reported the release to the NMOCD on a Release Notification and Corrective Action Form C-141 on October 22, 2019, and was assigned Remediation Permit (RP) Number 2RP-5704 and Incident Number of nRM1932350962.

Between October 2019 and December 2019, XTO conducted assessment, delineation, and excavation activities in response to the release. The excavations measured a total of approximately 1,500 square feet in area. A total of approximately 222 cubic yards of impacted soil were excavated from the Site. Based on the site assessment activities and laboratory analytical results from the soil sampling events, XTO submitted a *Closure Request* on January 6, 2020, requesting no further action (NFA) for the release.

The *Closure Request* detailed the site characterization according to NMOCD Table I, Closure Criteria (Closure Criteria) for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12

(19.15.29.12) of the New Mexico Administrative Code (NMAC). The nearest well utilized at the time was permitted by the New Mexico Office of the State Engineer (NMOSE) as C-02110, however, the well was greater than 0.5 miles from the Site. This was acceptable at the time of the submittal of the original *Closure Request*. In October 2020, a permitted soil boring (C-4478) was drilled approximately 0.15 miles west of the Site. The boring was drilled to a total depth of 110 feet and left open for 72 hours to allow for the slow infill of groundwater. No groundwater was observed and the soil boring was backfilled according to NMOSE approved procedures. The soil boring confirmed the regional depth to groundwater and complies with the NMOCD preference to have depth to groundwater data within 0.5 miles of the Site and collected within the last 25 years. The well log is included in Appendix A. Potential site receptors are identified in Figure 1. Based on the site characterization the following NMOCD Table I Closure Criteria are applicable:

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

On April 17, 2020, NMOCD denied the *Closure Request*, included in Appendix B for Incident Number nRM1932350962 for the following reasons:

- *Sidewall samples SW01, SW02, SW03, SW04, and SW05 are in the pasture and need to be delineated and excavated to 600 mg/kg for chlorides from 0'-4' below ground surface. Right of Ways and Roads are considered off Active Well Pad.*
- *Please include a signed/dated form C-141 Page 6 Closure Page.*

In response to the denial of the original *Closure Request*, the reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation. The areas of requested excavation are depicted in Figure 2. The following report details additional remediation activities completed to address the denial. In lieu of a signed/dated form C-141, the report will be uploaded on the NMOCD web portal.

DELINEATION SOIL SAMPLING ACTIVITIES

Further delineation activities were conducted at the Site between August 19, 2020, and November 19, 2021. In order to identify and delineate the waste-containing soil, delineation borings BH04A, BH05A, BH06A, BH08A, BH09A, BH10A, and BH11A were advanced to a maximum depth of 4 ft bgs. Potholes PH01/PH01A, PH02/PH02A, and PH03/ PH03A were advanced to the east and west of the excavation extent to confirm lateral delineation of waste-containing soil. The potholes were advanced to a terminal depth of 4 feet bgs and discrete soil samples were collected from each location from depths of 1-foot and 4 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. Delineation soil sample locations were mapped utilizing a handheld global positioning system (GPS) and are depicted on Figure 3.

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

XTO Energy, Inc
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under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for the delineation soil samples BH04, BH08, BH08A, BH09, and BH10 indicated chloride concentrations exceeded the reclamation requirement applied in the top 4 feet of the ROW, as previously identified. All other delineation soil samples indicated all COCs were compliant with the Closure Criteria and reclamation requirement in the top 4 feet successfully defining the vertical and lateral extent of the waste-containing soil.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between August 2020 and November 2022, XTO proceeded to excavate the top four feet of soil from the areas around SW01 through SW05, as well as waste containing soil identified in the delineation soil samples where soils exceeded the reclamation requirement. Following removal of the waste-containing soil, 5-point composite soil samples were collected from the sidewalls of excavation areas and from the floor of the excavations. 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 floor samples FS06 through FS28, were collected at a depth of 4 feet bgs in the excavation extents. Composite sidewall samples SW07 through SW48 were collected from the excavation at depths ranging from the ground surface to 4 feet bgs. Soil samples were field screened for VOCs and chloride. The soil samples were collected, handled, and analyzed following the same procedures as described above. Laboratory analytical results for sidewalls soil samples SW06, SW12 through SW15, SW19 through SW21, SW31, SW32, SW36 through SW38, SW42, and SW43 indicated TPH and/or chloride concentrations exceeded the reclamation requirement, as such, these areas were over-excavated and resampled.

Photographic documentation of the excavation activities is included in Appendix D. The excavation extent and confirmation soil sample locations are presented on Figures 4A and 4B. The total excavation areas measured approximately 3,527 square feet. A total of approximately 522 cubic yards of waste-containing soil was removed during excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

Laboratory analytical results for all final confirmation soil samples indicated all COCs were compliant with the Closure Criteria and reclamation requirement. Laboratory analytical results for all final confirmation soil sample results are summarized in Table 1 and laboratory analytical reports are included as Appendix E.

CLOSURE REQUEST

Additional delineation and excavation activities were conducted at the Site to address the NMOCD's *Closure Request* denial, dated April 17, 2020. Laboratory analytical results for all confirmation soil samples indicated that all COC concentrations were compliant with the Closure Criteria and reclamation requirement. XTO backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions. The area will be re-seeded with an approved BLM seed mixture.

Excavation of waste containing soil from the top four feet has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. As such, XTO respectfully requests closure for Incident Number nRM1932350962.

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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

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

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

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

Ashley L. Ager, M.S., P.G.
Program Director

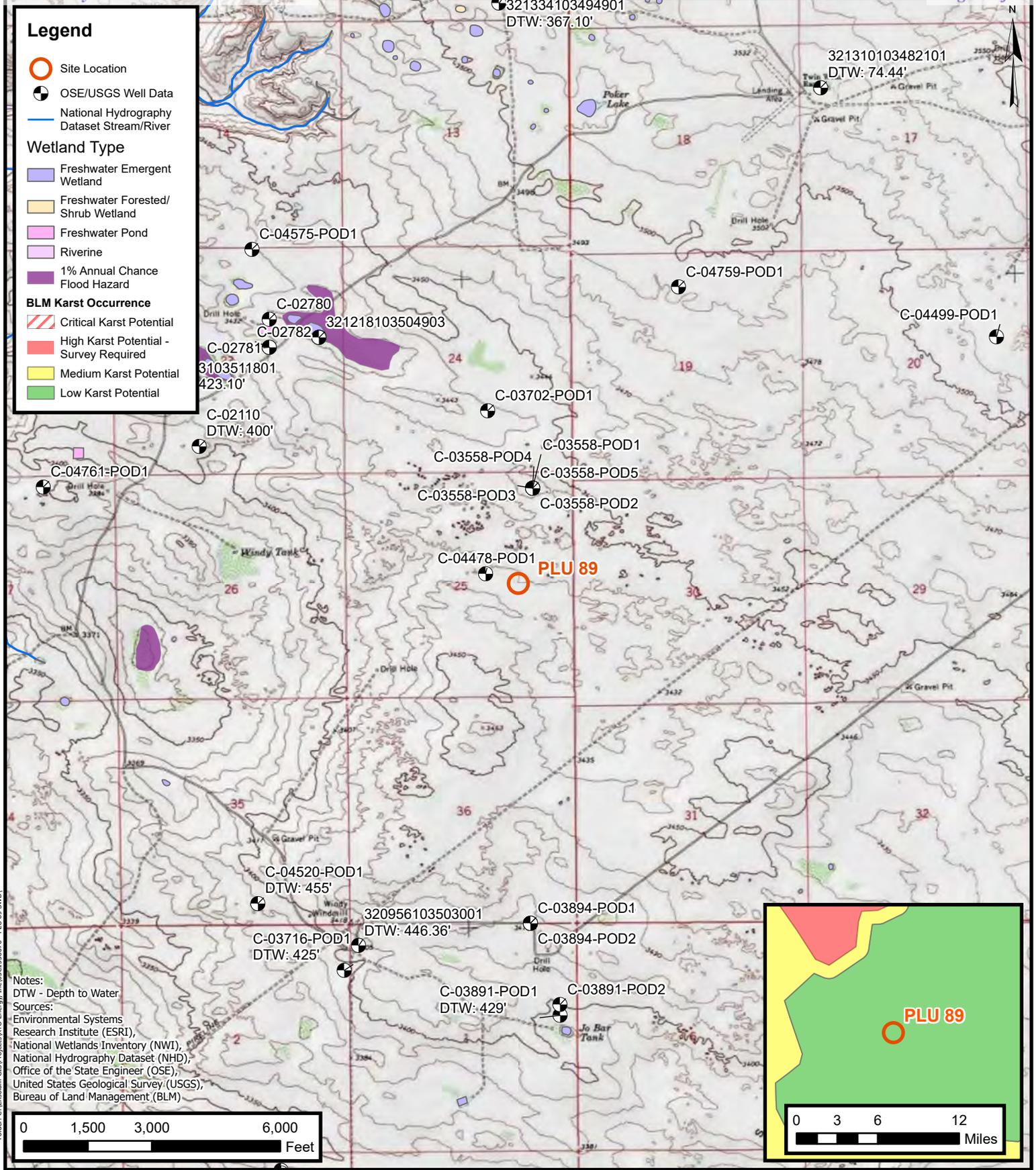
cc: Robert Woodall, XTO
Richard Kotzur, XTO
BLM

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Site Map
- Figure 3 Delineation Soil Sample Locations
- Figure 4A Excavation Soil Sample Locations
- Figure 4B Excavation Soil Sample Locations
- Table 1 Soil Sample Analytical Results
- Appendix A Referenced Well Log
- Appendix B *Closure Request*, dated January 6, 2020
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Photographic Log
- Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix F NMOCD Correspondence



FIGURES

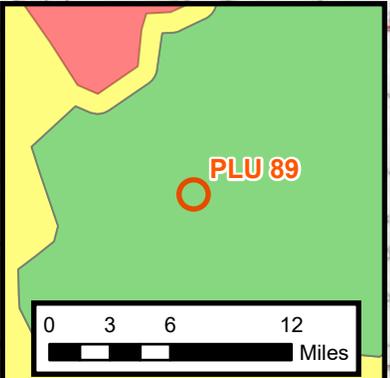
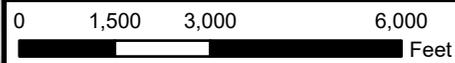


Legend

- Site Location
 - OSE/USGS Well Data
 - National Hydrography Dataset Stream/River
- Wetland Type**
- Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Riverine
 - 1% Annual Chance Flood Hazard
- BLM Karst Occurrence**
- Critical Karst Potential
 - High Karst Potential - Survey Required
 - Medium Karst Potential
 - Low Karst Potential

Notes:
DTW - Depth to Water

Sources:
Environmental Systems Research Institute (ESRI),
National Wetlands Inventory (NWI),
National Hydrography Dataset (NHD),
Office of the State Engineer (OSE),
United States Geological Survey (USGS),
Bureau of Land Management (BLM)



Site Receptor Map

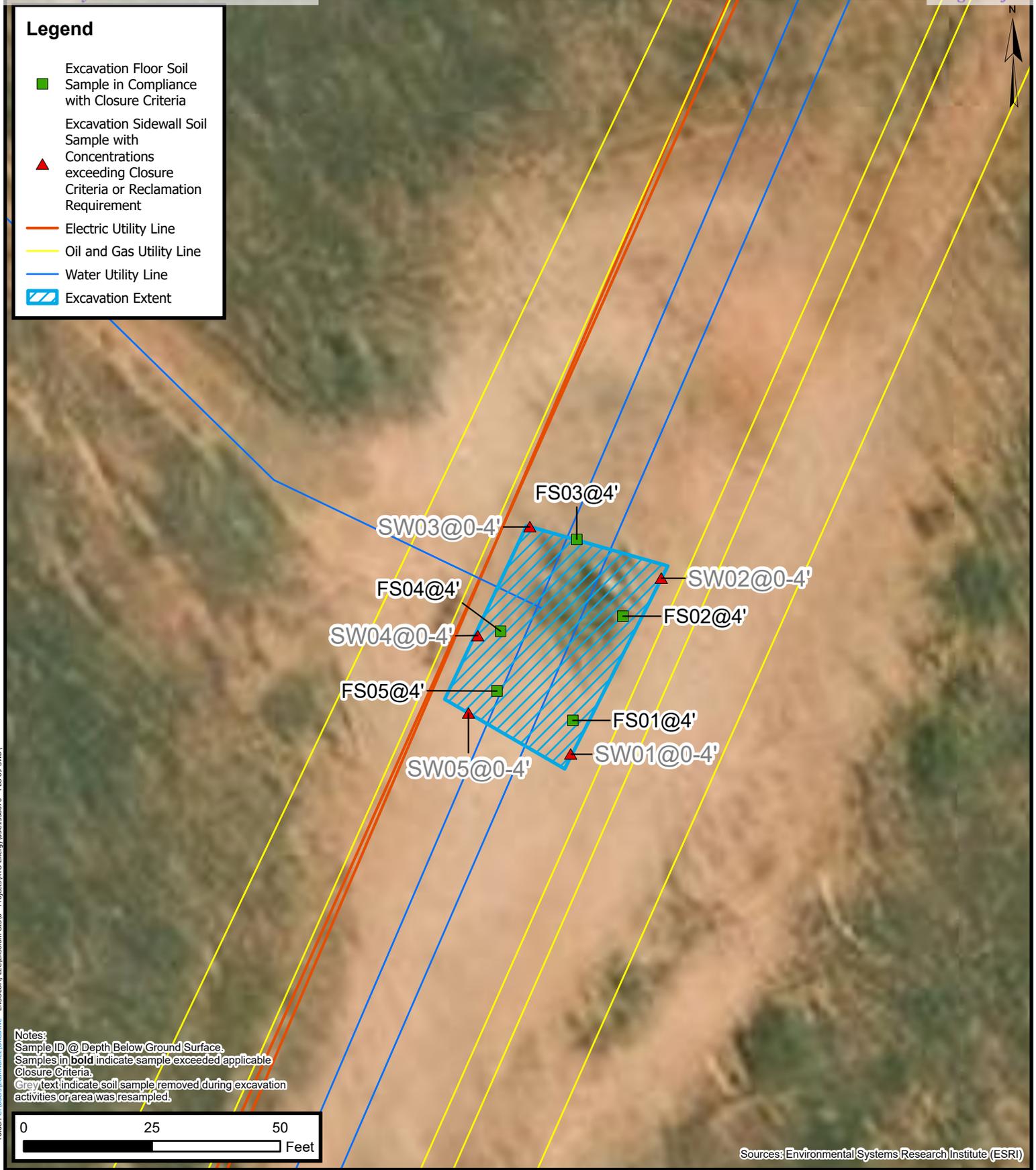
XTO Energy, Inc.
PLU 89
Incident Number: NRM1932350962
Unit G, Section 25, T 24S, R 30E
Eddy County, New Mexico

FIGURE

1

Legend

- Excavation Floor Soil Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Soil Sample with Concentrations exceeding Closure Criteria or Reclamation Requirement
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in **bold** indicate sample exceeded applicable Closure Criteria.
 Grey text indicate soil sample removed during excavation activities or area was resampled.



Sources: Environmental Systems Research Institute (ESRI)



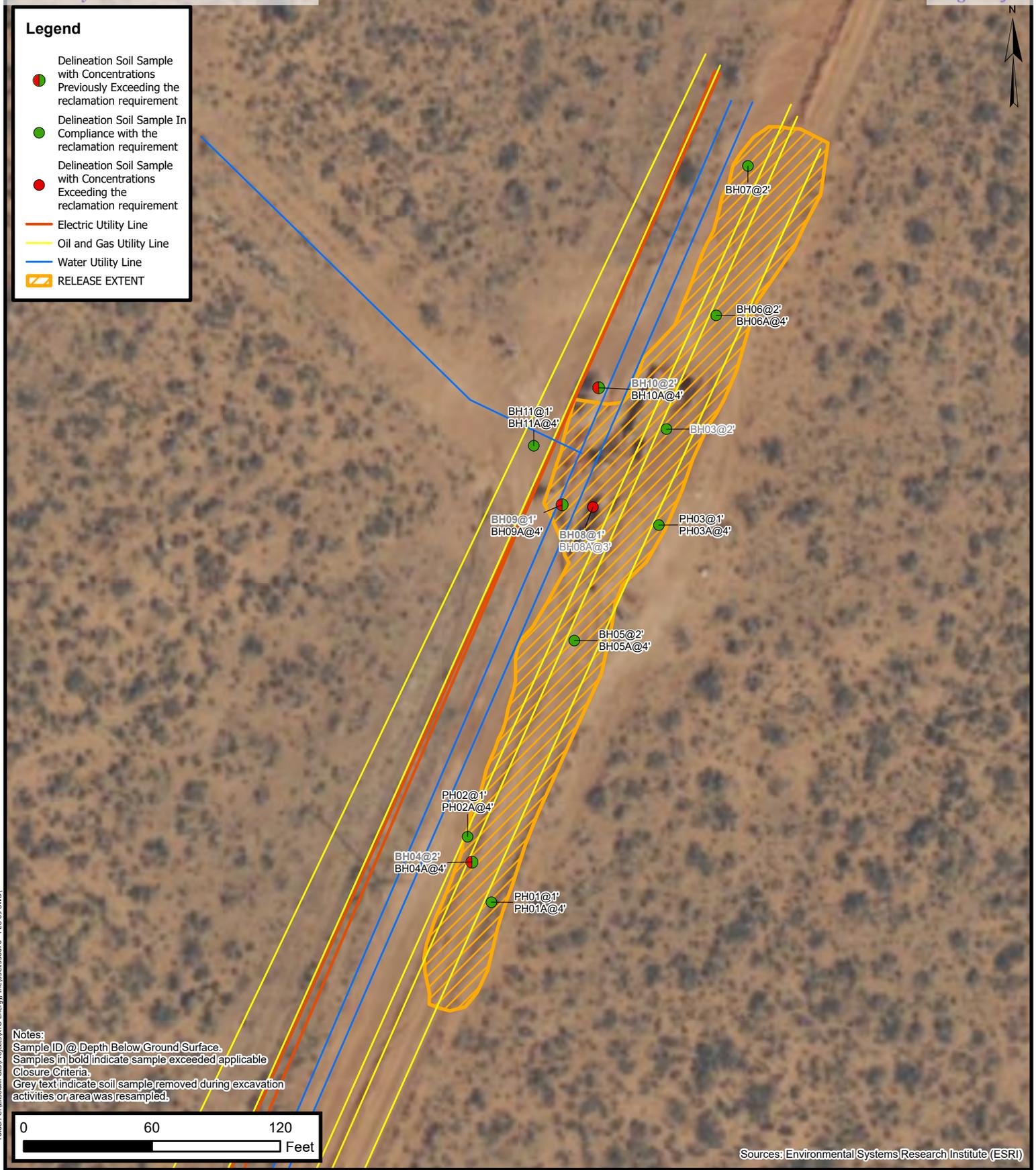
Site Map

XTO Energy, Inc.
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 Eddy County, New Mexico

FIGURE
2

Legend

- Delineation Soil Sample with Concentrations Previously Exceeding the reclamation requirement
- Delineation Soil Sample In Compliance with the reclamation requirement
- Delineation Soil Sample with Concentrations Exceeding the reclamation requirement
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- RELEASE EXTENT



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable Closure Criteria.
 Grey text indicate soil sample removed during excavation activities or area was resampled.



Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

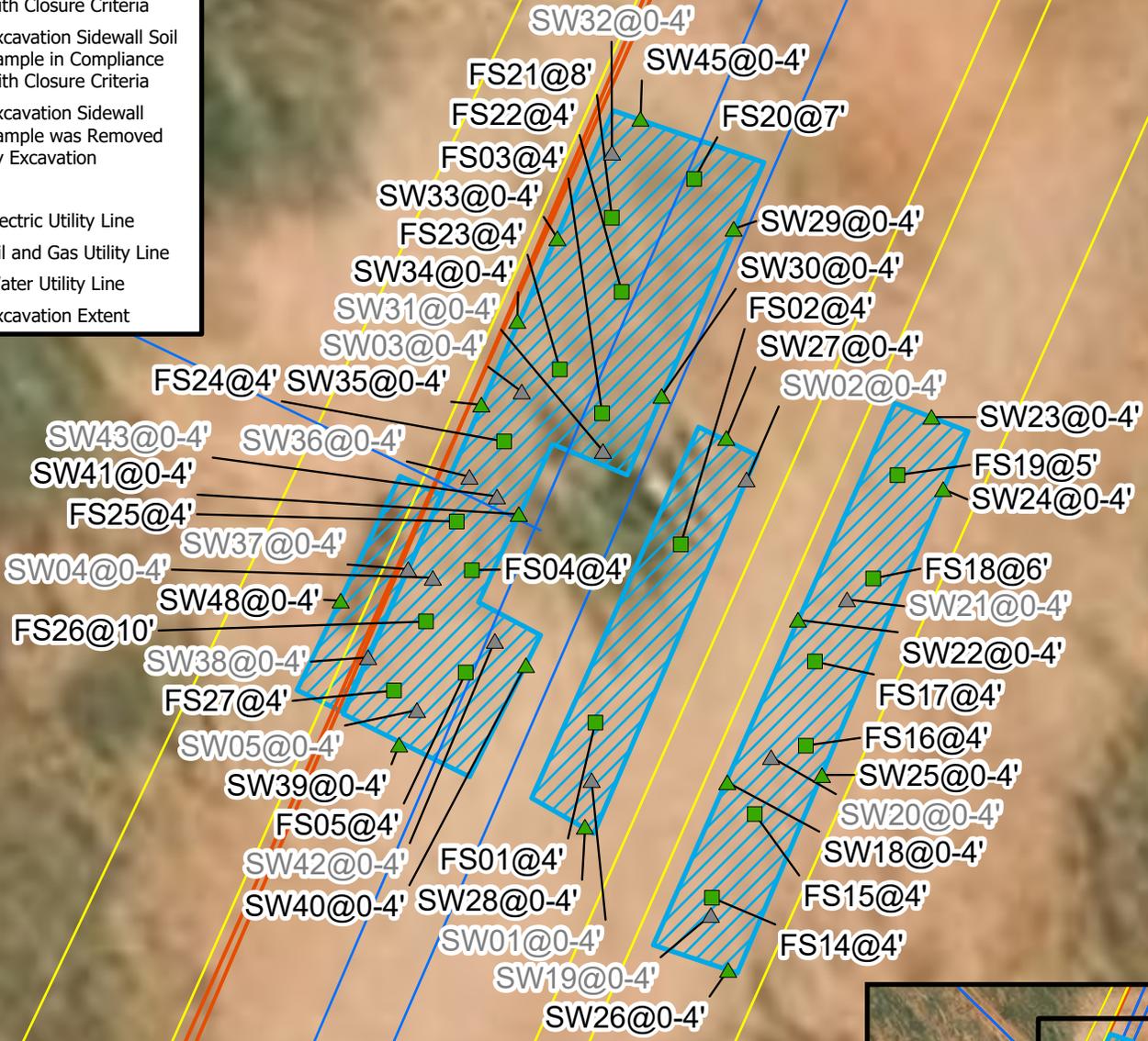
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FIGURE
3

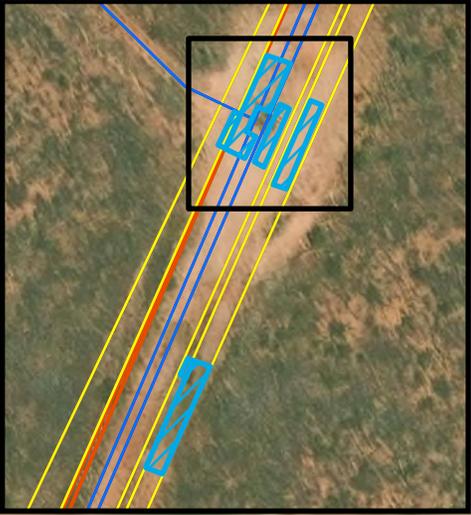


Legend

- Excavation Floor Soil Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample was Removed by Excavation
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- ▨ Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable Closure Criteria.
 Grey text indicate soil sample removed during excavation activities or area was resampled.



Excavation Soil Sample Locations

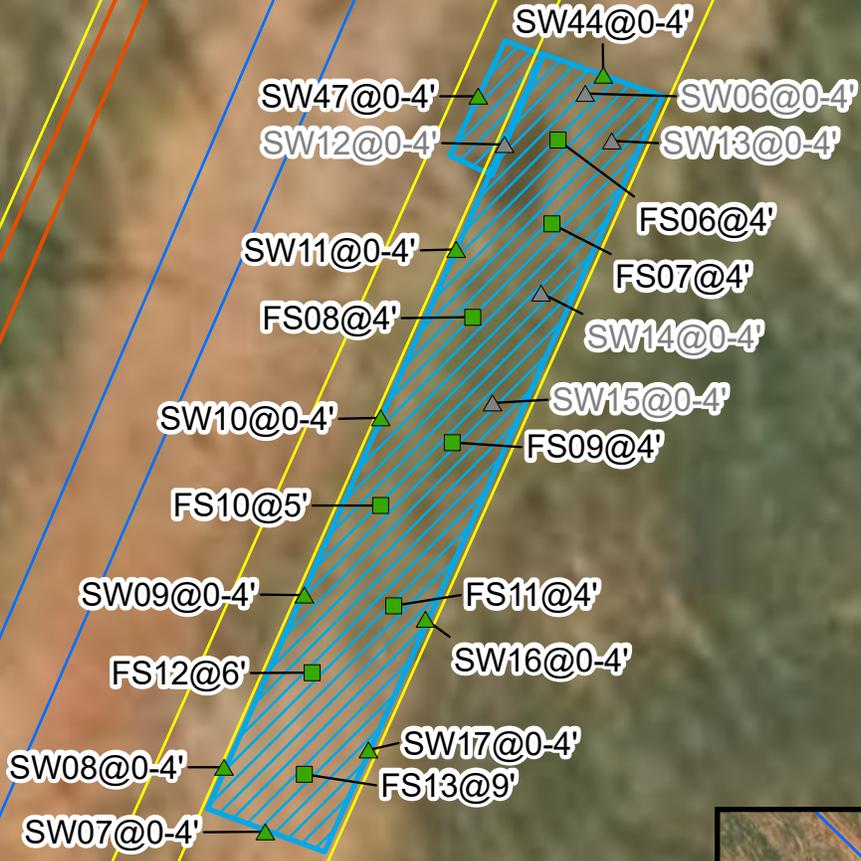
XTO Energy, Inc.
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FIGURE 4A

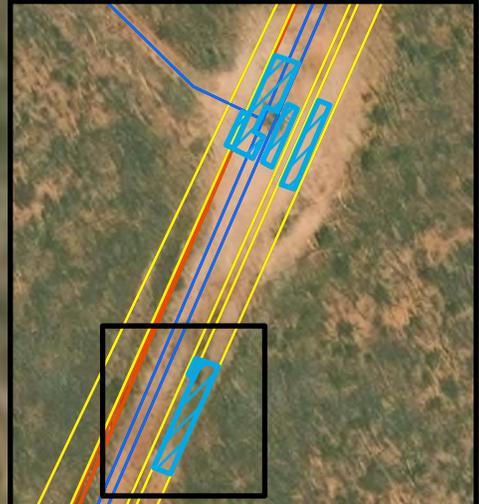
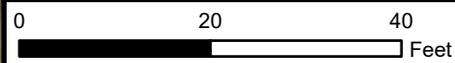


Legend

- Excavation Floor Soil Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Soil Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample was Removed by Excavation or Area was Resampled
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable Closure Criteria.
 Grey text indicate soil sample removed during excavation activities or area was resampled.



Excavation Soil Sample Locations

XTO Energy, Inc.
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**FIGURE
 4B**





TABLES



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 89
XTO Energy, Inc.
Eddy County, NM**

| Sample ID | 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 | 1,000 | 2,500 | 20,000 |
| Soil Samples | | | | | | | | | | |
| SS01 | 10/14/2019 | 0.5 | <0.000988 | <0.000988 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | <9.88 |
| SS02 | 10/14/2019 | 0.5 | <0.000994 | <0.000994 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 22.0 |
| SS03 | 10/14/2019 | 0.5 | <0.000992 | <0.000992 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 19.6 |
| SS04 | 10/14/2019 | 0.5 | <0.000992 | <0.000992 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 13,800 |
| SS05 | 10/14/2019 | 0.5 | <0.000988 | 0.00802 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 16,200 |
| SS06 | 10/14/2019 | 0.5 | 0.29 | 123 | 427 | 1,410 | 102 | 1,840 | 1,940 | 25,100 |
| SS07 | 10/14/2019 | 0.5 | 0.561 | 72.9 | 1,530 | 8,930 | 794 | 10,500 | 11,300 | 15,800 |
| Delineation Samples | | | | | | | | | | |
| BH03 | 11/21/2019 | 2 | <0.00199 | <0.00199 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | <10.1 |
| BH04 | 11/21/2019 | 2 | <0.00198 | <0.00198 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 3,600 |
| BH04A | 08/19/2020 | 4 | <0.00198 | <0.00198 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 6,900 |
| BH05 | 11/21/2019 | 2 | <0.00197 | <0.00197 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 15.9 |
| BH05A | 03/04/2021 | 4 | <0.00199 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 21.8 |
| BH06 | 11/21/2019 | 2 | <0.00198 | <0.00198 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | <9.98 |
| BH06A | 03/04/2021 | 4 | <0.00202 | <0.00202 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 361 |
| BH07 | 11/21/2019 | 2 | <0.00200 | <0.00200 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | <9.92 |
| BH08 | 08/19/2020 | 1 | <0.00199 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 3,800 |
| BH08A | 08/19/2020 | 3 | <0.00199 | <0.00199 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 1,800 |
| BH09 | 08/19/2020 | 1 | <0.00202 | <0.00202 | <49.8 | 57.2 | <49.8 | 57.2 | 57.2 | 2,770 |
| BH09A | 08/19/2020 | 4 | <0.00198 | <0.00198 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 1,590 |
| BH010 | 08/19/2020 | 2 | <0.00202 | <0.00202 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 1,570 |
| BH010A | 08/19/2020 | 4 | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 240 |
| BH011 | 08/19/2020 | 1 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 333 |
| BH011A | 08/19/2020 | 4 | <0.00198 | <0.00198 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 2,590 |
| PH01 | 03/04/2021 | 1 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 10.3 |
| PH01 A | 03/04/2021 | 4 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | <4.96 |
| PH02 | 03/04/2021 | 1 | <0.00202 | <0.00202 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 94.1 |
| PH02 A | 03/04/2021 | 4 | <0.00199 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 17.4 |
| PH03 | 03/04/2021 | 1 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 16.5 |
| PH03 A | 03/04/2021 | 4 | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 117 |
| Excavation Samples | | | | | | | | | | |
| FS01 | 12/10/2019 | 4 | <0.00200 | <0.00200 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 9,000 |



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SOIL SAMPLE ANALYTICAL RESULTS
PLU 89
XTO Energy, Inc.
Eddy County, NM**

| Sample ID | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| FS02 | 12/10/2019 | 4 | <0.00200 | 0.00853 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 9,390 |
| FS03 | 12/10/2019 | 4 | <0.00200 | <0.00200 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 7,090 |
| FS04 | 12/11/2019 | 4 | <0.00198 | <0.00198 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 2,630 |
| FS05 | 12/11/2019 | 4 | <0.00200 | <0.00200 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 4,300 |
| FS06 | 02/22/2021 | 4 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 4,280 |
| FS07 | 02/22/2021 | 4 | <0.00201 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 5,640 |
| FS08 | 02/22/2021 | 4 | <0.00199 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 7,610 |
| FS09 | 02/22/2021 | 4 | <0.00200 | <0.00200 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 4,190 |
| FS10 | 02/22/2021 | 4 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 3,210 |
| FS11 | 02/22/2021 | 4 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 2,040 |
| FS12 | 02/22/2021 | 4 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,850 |
| FS13 | 02/22/2021 | 4 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 448 |
| FS14 | 02/23/2021 | 4 | <0.00200 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 4,310 |
| FS15 | 02/23/2021 | 4 | <0.00202 | <0.00202 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 3,660 |
| FS16 | 02/23/2021 | 4 | <0.00201 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,010 |
| FS17 | 02/23/2021 | 4 | <0.00199 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 464 |
| FS18 | 02/23/2021 | 4 | <0.00198 | <0.00198 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 606 |
| FS19 | 02/23/2021 | 4 | <0.00198 | <0.00198 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 88.9 |
| FS20 | 02/24/2021 | 4 | <0.00201 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 37.3 |
| FS21 | 02/24/2021 | 4 | <0.00201 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 261 |
| FS22 | 02/24/2021 | 4 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 1,500 |
| FS23 | 02/24/2021 | 4 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 3,800 |
| FS24 | 02/24/2021 | 4 | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 5,580 |
| FS25 | 02/24/2021 | 4 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 183 |
| FS26 | 02/24/2021 | 4 | <0.00198 | <0.00198 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 1,040 |
| FS27 | 02/24/2021 | 4 | <0.00199 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,010 |
| FS28 | 02/24/2021 | 4 | <0.00198 | <0.00198 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 43.9 |
| Sidewall Samples | | | | | | | | | | |
| SW01 | 12/10/2019 | 0-4 | <0.00200 | 0.0104 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 4,940 |
| SW02 | 12/10/2019 | 0-4 | <0.00200 | 0.00727 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 4,700 |
| SW03 | 12/11/2019 | 0-4 | <0.00196 | <0.00200 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 3,140 |
| SW04 | 12/11/2019 | 0-4 | <0.00200 | 0.0205 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 6,180 |
| SW05 | 12/11/2019 | 0-4 | <0.00200 | <0.00196 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 6,180 |



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 89
XTO Energy, Inc.
Eddy County, NM**

| Sample ID | Sample Date | Sample Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------|-------------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| SW06 | 02/22/2021 | 0-4 | <0.00199 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 673 |
| SW07 | 02/22/2021 | 0-4 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 110 |
| SW08 | 02/23/2021 | 0-4 | <0.00201 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 113 |
| SW09 | 02/23/2021 | 0-4 | <0.00198 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 16.6 |
| SW10 | 02/23/2021 | 0-4 | <0.00199 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 59.9 |
| SW11 | 02/23/2021 | 0-4 | <0.00199 | <0.00198 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 474 |
| SW12 | 02/23/2021 | 0-4 | <0.00199 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 2,030 |
| SW13 | 02/23/2021 | 0-4 | <0.00200 | <0.00199 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 669 |
| SW14 | 02/23/2021 | 0-4 | <0.00202 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 3,070 |
| SW15 | 02/23/2021 | 0-4 | <0.00202 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 1,240 |
| SW16 | 02/23/2021 | 0-4 | <0.00199 | <0.00202 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 58.8 |
| SW17 | 02/23/2021 | 0-4 | <0.00198 | <0.00202 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 35.0 |
| SW18 | 02/23/2021 | 0-4 | <0.00200 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 531 |
| SW19 | 02/23/2021 | 0-4 | <0.00200 | <0.00198 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 2,760 |
| SW20 | 02/23/2021 | 0-4 | <0.00199 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 1,410 |
| SW21 | 02/23/2021 | 0-4 | <0.00201 | <0.00200 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 2,650 |
| SW22 | 02/23/2021 | 0-4 | <0.00201 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 54.3 |
| SW23 | 02/23/2021 | 0-4 | <0.00199 | <0.00201 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 77.6 |
| SW24 | 02/23/2021 | 0-4 | <0.00200 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 43.3 |
| SW25 | 02/23/2021 | 0-4 | <0.00201 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 105 |
| SW26 | 02/23/2021 | 0-4 | <0.00202 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 455 |
| SW27 | 02/24/2021 | 0-4 | <0.00202 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 35.1 |
| SW28 | 02/24/2021 | 0-4 | <0.00201 | <0.00201 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 14.7 |
| SW29 | 02/24/2021 | 0-4 | <0.00201 | <0.00201 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 14.7 |
| SW30 | 02/24/2021 | 0-4 | <0.00201 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 523 |
| SW31 | 02/24/2021 | 0-4 | <0.00199 | <0.00201 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 1,180 |
| SW32 | 02/24/2021 | 0-4 | <0.00198 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 652 |
| SW33 | 02/24/2021 | 0-4 | <0.00201 | <0.00198 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 120 |
| SW34 | 02/24/2021 | 0-4 | <0.00200 | <0.00201 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 30.5 |
| SW35 | 02/24/2021 | 0-4 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 135 |
| SW36 | 02/24/2021 | 0-4 | <0.00198 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 1,730 |
| SW37 | 02/24/2021 | 0-4 | <0.00198 | <0.00198 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 835 |
| SW38 | 02/24/2021 | 0-4 | <0.00202 | <0.00198 | <50.0 | 115 | <50.0 | 115 | 115 | 1,950 |



**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PLU 89
XTO Energy, Inc.
Eddy County, NM**

| Sample ID | 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 | 1,000 | 2,500 | 20,000 |
| SW39 | 02/24/2021 | 0 - 4 | <0.00200 | <0.00202 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 44.0 |
| SW40 | 02/24/2021 | 0 - 4 | <0.00199 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 15.5 |
| SW41 | 02/24/2021 | 0 - 4 | <0.00201 | <0.00199 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 14.4 |
| SW42 | 02/24/2021 | 0 - 4 | <0.00198 | <0.00201 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 737 |
| SW43 | 02/24/2021 | 0 - 4 | <0.00199 | <0.00198 | <50.0 | 99.3 | <50.0 | 99.3 | 99.3 | 724 |
| SW44 | 02/24/2021 | 0 - 4 | <0.00202 | <0.00199 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 227 |
| SW45 | 03/04/2021 | 0 - 4 | <0.00198 | <0.00198 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 123 |
| SW46 | 03/04/2021 | 0 - 4 | <0.00200 | <0.00200 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 22.2 |
| SW47 | 11/18/2022 | 0 - 4 | <0.00199 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 180 |
| SW48 | 11/18/2022 | 0 - 4 | <0.00201 | <0.00402 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 295 |

Notes:

bgs: below ground surface
 mg/kg: milligrams per kilogram
 NMOCDC: New Mexico Oil Conservation Division
 BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
 GRO: Gasoline Range Organics
 DRO: Diesel Range Organics
 ORO: Oil Range Organics
 TPH: Total Petroleum Hydrocarbon

NMOCDC: New Mexico Oil Conservation Division
 NMAC: New Mexico Administrative Code
 < - indicates result is less than the stated laboratory method practical quantitation limit.
 NE - Not Established
 Grey text indicates soil sample removed during excavation activities or area was resampled.
 Concentrations in **bold** exceed the NMOCDC Table I Closure Criteria or reclamation requirement where applicable.



APPENDIX A
Referenced Well Log



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

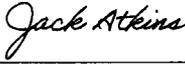
2020 OCT 29 PM 1:03
 STATE ENGINEER'S OFFICE
 1000 GARDEN AVENUE
 ALBUQUERQUE, NM 87102

| | | | | | | | |
|--|--|-----------------------|-------------------------------|--------------------------|--|--------------------|---------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) POD1 (BH-01) | | WELL TAG ID NO. n/a | | OSE FILE NO(S). C-4478 | | |
| | WELL OWNER NAME(S) XTO Energy (Kyle Littrell) | | | | PHONE (OPTIONAL) | | |
| | WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr. | | | | CITY Midland | STATE TX | ZIP 79707 |
| | WELL LOCATION (FROM GPS) | DEGREES 32° | MINUTES 11' | SECONDS 22.57" | * ACCURACY REQUIRED: ONE TENTH OF A SECOND | | |
| | | LATITUDE | | N | * DATUM REQUIRED: WGS 84 | | |
| | LONGITUDE | -103° | 49' | 56.14" | W | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW SE NE Sec. 25 T24S R30E | | | | | | | |

| | | | | | | | | |
|---|--|---|--|--|---|------------------------------|--------------------------------|--------------------|
| 2. DRILLING & CASING INFORMATION | LICENSE NO. 1249 | NAME OF LICENSED DRILLER Jackie D. Atkins | | | NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc. | | | |
| | DRILLING STARTED 10/07/2020 | DRILLING ENDED 10/07/2020 | DEPTH OF COMPLETED WELL (FT) temporary well material | 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 checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger | | | | | | | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
| | FROM | TO | | | | | | |
| | 0 | 110 | ±8.5 | Boring- HSA | -- | -- | -- | -- |
| | | | | | | | | |
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|----------------------------|------------------|----|--------------------------|---|---------------------|---------------------|
| 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 | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |

| | | | | | |
|---------------------------------|---------------------------|--|--|--|--|
| FOR OSE INTERNAL USE | | WR-20 WELL RECORD & LOG (Version 06/30/17) | | | |
| FILE NO. 0-4478 | POD NO. 1 | TRN NO. 678382 | | | |
| LOCATION 24S-30E-25 23-3 | WELL TAG ID NO. NA | PAGE 1 OF 2 | | | |

| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|---|---|------------------|--|--|---|
| | FROM | TO | | | | |
| | 0 | 3 | 3 | Sand, fine-grained, poorly-graded, Red-Brown | Y ✓ N | |
| | 3 | 5 | 2 | Gravel, 20-30 mil, well graded, little clay | Y ✓ N | |
| | 5 | 13 | 8 | Caliche with some gravel (5-20 mil.) Tan/ Brown | Y ✓ N | |
| | 13 | 24 | 9 | Sand, fine-grained, well-graded some silt, Tan/ Red | Y ✓ N | |
| | 24 | 34 | 10 | Sand, Medium-grained, well-graded some silt, Tan/ Red | Y ✓ N | |
| | 34 | 44 | 10 | Sand, Large-grained, well-graded some silt, Dark Brown | Y ✓ N | |
| | 44 | 110 | 66 | Sand, fine-grained, well-graded, some clay, moist, caliche fragments Red/Brown | Y ✓ N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
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| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): 0.00 | |
| <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | | |
| 5. TEST; RIG SUPERVISION | WELL TEST | TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. | | | | |
| | MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from LTE on-site geologist. | | | | | |
| | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge | | | | | |
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: | | | | | |
| |  SIGNATURE OF DRILLER / PRINT SIGNEE NAME | | | Jackie D. Atkins DATE: 10/26/2020 | | |

| | | | | | |
|----------------------|-----------|--|-------------|--|--|
| FOR OSE INTERNAL USE | | WR-20 WELL RECORD & LOG (Version 06/30/2017) | | | |
| FILE NO. C-4478 | POD NO. 1 | TRN NO. 678382 | | | |
| LOCATION 24S-30E-25 | 2-3-3 | WELL TAG ID NO. NA | PAGE 2 OF 2 | | |

2020-10-26_C-4478POD1_OSE_Well Record and Log-89-forsign

Final Audit Report

2020-10-27

| | |
|-----------------|---|
| Created: | 2020-10-27 |
| By: | Lucas Middleton (lucas@atkinseng.com) |
| Status: | Signed |
| Transaction ID: | CBJCHBCAABAESGKFRG9AU3NcytvOCSRntC1Y-zTs43Y |

"2020-10-26_C-4478POD1_OSE_Well Record and Log-89-forsign" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2020-10-27 - 3:14:03 PM GMT- IP address: 69.21.248.123
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2020-10-27 - 3:14:17 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2020-10-27 - 3:21:12 PM GMT- IP address: 74.50.153.115
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2020-10-27 - 3:22:09 PM GMT - Time Source: server- IP address: 74.50.153.115
-  Agreement completed.
2020-10-27 - 3:22:09 PM GMT

2020 OCT 29 PM 1:08
 OFFICE OF THE ATTORNEY GENERAL
 1000 PENNSYLVANIA AVENUE
 PHILADELPHIA PA 19107





PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4478-POD1
Well owner: XTO ENERGY (Kyle Littrell) Phone No.: 432.682.8873
Mailing address: 6401 Holiday Hill Dr.
City: Midland State: Texas Zip code: 79707

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/21
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Shane Elridge
- 4) Date well plugging began: 10/15/2020 Date well plugging concluded: 10/15/20
- 5) GPS Well Location: Latitude: 32 deg, 11 min, 22.57 sec
Longitude: -103 deg, 49 min, 56.14 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 68 ft below ground level-(bgl),
by the following manner: weighted tape
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 09/02/2020
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OCT 29 PM 1:08
 STATE ENGINEER OFFICE
 ALBUQUERQUE, NM 87103

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

| <u>Depth</u> (ft bgl) | <u>Plugging Material Used</u> (include any additives used) | <u>Volume of Material Placed</u> (gallons) | <u>Theoretical Volume of Borehole/ Casing</u> (gallons) | <u>Placement Method</u> (tremie pipe, other) | <u>Comments</u> ("casing perforated first", "open annular space also plugged", etc.) |
|--------------------------|---|---|--|---|---|
| 0-10' | Hydrated Bentonite | Approx. 36 gallons | 29 gallons | Augers | |
| 10'-110' | Drill Cuttings | Approx. 294 gallons | 294 gallons | Boring | |

STATE ENGINEER OFFICE
 P.O. BOX 111111
 AUSTIN, TEXAS 78711-1111
 2020 OCT 29 PM 1:08

| MULTIPLY | BY | AND OBTAIN |
|----------------------|----|------------|
| cubic feet x 7.4805 | = | gallons |
| cubic yards x 201.97 | = | gallons |

III. SIGNATURE:

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

10/26/20

Signature of Well Driller

Date



APPENDIX B
Closure Request, dated January 6, 2020

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

| | |
|----------------|---------------|
| Incident ID | nRM1932350962 |
| District RP | 2RP-5704 |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| | | | |
|-------------------------|-----------------------------------|------------------------------|--------------|
| Responsible Party | XTO Energy | OGRID | 5380 |
| Contact Name | Kyle Littrell | Contact Telephone | 432-221-7331 |
| Contact email | Kyle_Littrell@xtoenergy.com | Incident # (assigned by OCD) | |
| Contact mailing address | 522 W. Mermod, Carlsbad, NM 88220 | | |

Location of Release Source

Latitude 32.188695 Longitude -103.829938
(NAD 83 in decimal degrees to 5 decimal places)

| | | | |
|-------------------------|------------|----------------------|---------------------|
| Site Name | PLU 89 | Site Type | Pipeline Riser |
| Date Release Discovered | 10/08/2019 | API# (if applicable) | 30-015-27787 PLU 89 |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| G | 25 | 24S | 30E | EDDY |

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | | | |
|--|--|--------|--|--------|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) | 7.04 | Volume Recovered (bbls) | 6.60 |
| <input checked="" type="checkbox"/> Produced Water | Volume Released (bbls) | 1401.2 | Volume Recovered (bbls) | 1313.4 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| <input type="checkbox"/> Condensate | Volume Released (bbls) | | Volume Recovered (bbls) | |
| <input type="checkbox"/> Natural Gas | Volume Released (Mcf) | | Volume Recovered (Mcf) | |
| <input type="checkbox"/> Other (describe) | Volume/Weight Released (provide units) | | Volume/Weight Recovered (provide units) | |

Cause of Release: While excavating for future manifold replacement, an 8" SWD transfer line was hit. Additional third party resources have been retained to assist in the remediation.

| | |
|----------------|----------------------|
| Incident ID | nRM1932300624 of 337 |
| District RP | 2RP-5704 |
| Facility ID | |
| Application ID | |

| | |
|--|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If YES, for what reason(s) does the responsible party consider this a major release? An unauthorized release of fluid over 25 barrels. |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? YES, by Adrian Baker: to 'Mike Bratcher'; 'Venegas, Victoria, EMNRD'; 'Rob Hamlet'; 'Jim.Griswold@state.nm.us'; 'blm_nm_cfo_spill@blm.gov' on 10/9/19 at 8:49am. | |

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

| | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately. | |
| If all the actions described above have <u>not</u> been undertaken, explain why: N/A | |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. | |
| 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. | |
| Printed Name: <u>Kyle Littrell</u> | Title: <u>SH&E Supervisor</u> |
| Signature:  | Date: <u>10/22/2019</u> |
| email: <u>Kyle.Littrell@xtoenergy.com</u> | Telephone: _____ |
| OCD Only | |
| Received by: _____ | Date: _____ |

| | |
|----------------|---------------|
| Incident ID | nRM1932350962 |
| District RP | 2RP-5704 |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

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? | >100 (ft bgs) |
| Did this release impact groundwater or surface water? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas not on an exploration, development, production, or storage site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

| |
|---|
| Characterization Report Checklist: <i>Each of the following items must be included in the report.</i> |
| <input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. |
| <input checked="" type="checkbox"/> Field data |
| <input checked="" type="checkbox"/> Data table of soil contaminant concentration data |
| <input checked="" type="checkbox"/> Depth to water determination |
| <input checked="" type="checkbox"/> Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release |
| <input checked="" type="checkbox"/> Boring or excavation logs |
| <input checked="" type="checkbox"/> Photographs including date and GIS information |
| <input checked="" type="checkbox"/> Topographic/Aerial maps |
| <input checked="" type="checkbox"/> Laboratory data including chain of custody |

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

| | |
|----------------|---------------|
| Incident ID | nRM1932350962 |
| District RP | 2RP-5704 |
| Facility ID | |
| Application ID | |

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: _____ Kyle Littrell _____ Title: _____ SH&E Coordinator _____

Signature: _____  _____ Date: _____ 01/06/2020 _____

email: _____ Kyle_Littrell@xtoenergy.com _____ Telephone: _____ (432)-221-7331 _____

OCD Only

Received by: _____ Date: _____

- Approved
- Approved with Attached Conditions of Approval
- Denied
- Deferral Approved

Signature: _____ Date: _____



LT Environmental, Inc.

3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

January 6, 2020

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210**RE: Closure Request
Poker Lake Unit 89
Remediation Permit Number 2RP-5704
Incident Number nRM1932350962
Eddy County, New Mexico**

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing soil sampling and excavation activities at the Poker Lake Unit 89 (Site) in Unit G, Section 25, Township 24 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the soil sampling and excavation activities was to address impacts to soil after a crude oil and produced water release at the Site.

On October 8, 2019, an eight-inch transfer line was struck while excavating for equipment upgrades, causing a crude oil and produced water release in the excavation area and along the pipeline right of way (ROW). Approximately 7.04 barrels (bbls) of crude oil and 1,401.2 bbls of produced water were released from the eight-inch transfer line. A vacuum truck was used to recover approximately 6.6 bbls of crude oil and approximately 1,313.4 bbls of produced water. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on October 22, 2019 and was assigned Remediation Permit (RP) Number 2RP-5704 and Incident Number (IN) of nRM1932350962. Based on the excavation activities and results from the soil confirmation and delineation sampling activities conducted to date, XTO is submitting this Closure Request and asking for no further action (NFA) for RP Number 2RP-5704.

BACKGROUND

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the depth to groundwater data from the nearest groundwater well. The nearest permitted groundwater well with depth to groundwater data is New Mexico Office of State Engineers (NMOSE) well C 02110 located approximately 1.55 miles northwest of the Site. Although, NMOSE wells C 03558 are closer to the Site, these wells were not used because depth



to groundwater data was not available. The groundwater well has a depth to groundwater of 400 feet bgs. The total depth of the groundwater well is 600 feet bgs. Ground surface elevation at the groundwater well location is 3,412 feet, which is 29 feet lower in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is a freshwater emergent wetland located approximately 7,288 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, or church. The nearest wetland is greater than 300 feet from the Site. 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 located in a low potential karst area. The Site Receptors are depicted on Figure 1.

CLOSURE CRITERIA

Based on the results of the site characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

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

PRELIMINARY SOIL SAMPLING

On October 14, 2019, LTE conducted reconnaissance of the Site to evaluate the release extent and collect preliminary soil samples. Surface hydrocarbon staining was observed in the release area and along the northeast to southwest trending pipeline ROW. The release extent was mapped using a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. LTE personnel collected preliminary soil samples SS01 through SS07 within the release at a depth of approximately 0.5 feet bgs to assess the lateral extent of soil impacts. The discrete samples were collected using hand-auger equipment. The soil samples were screened for volatile aromatic hydrocarbons and chlorides using a photo-ionization detector (PID) and Hach® chloride QuanTab® test strips. The soil samples were placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis, and immediately placed on ice. The samples were shipped to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, at 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) by EPA Method 8015M/D, and chloride by EPA Method 300.0. The preliminary



soil sample locations are presented on Figure 2. A photographic log of the Site is included as Attachment 1.

Laboratory analytical results indicated that total BTEX, TPH-GRO, TPH-DRO, TPH, and/or chloride concentrations exceeded the Closure Criteria in preliminary soil samples SS06 and SS07. Preliminary soil samples SS06 and SS07 were collected immediately adjacent to the release point. The remaining preliminary soil sample concentrations were below the Closure Criteria. Based on the laboratory analytical results, borehole sampling was scheduled to delineate the lateral and vertical extent of impacted soil and direct excavation activities. Laboratory analytical results are presented on Figure 2 and summarized in Table 1, and the laboratory analytical report is included in Attachment 3.

EXCAVATION ACTIVITIES

Hydro-excavation activities were conducted between November 21 and December 11, 2019 to remove impacted soil identified through soil sampling. Hydro-excavation was conducted in the area adjacent to the release point, above the pipeline, and parallel to both sides of the pipeline. Hydro-excavation activities were conducted to the largest extent feasible.

To direct all excavation activities, LTE screened soil samples using a PID and Hach® chloride QuanTab® test strips. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the sidewalls (SW01 through SW05) and floor (FS01 through FS05) of the excavation. The 5-point composite samples were collected by depositing 5 aliquots of soil into a 1-gallon, resealable plastic bag, and homogenizing the samples by thoroughly mixing. The excavation soil samples were collected, handled, and analyzed as described above and submitted to Xenco in Carlsbad, New Mexico. The excavation confirmation soil sample locations are presented on Figure 3.

The excavations measured a total of approximately 1,500 square feet in area. A total of approximately 222 cubic yards of soil were removed from the excavations. Impacted soil was transported and properly disposed of at the R360 Landfill Facility located in Carlsbad, New Mexico.

DELINEATION ACTIVITIES

Between November 21 and December 2, 2019, LTE conducted borehole sampling activities to further confirm the absence of impacted soil in the subsurface in the remaining portions of the release footprint. Boreholes BH04, BH03, BH05, BH06, and BH07 were advanced within the release area via hand-auger to a depth of approximately two feet bgs. These boreholes were advanced at preliminary soil sample locations SS01 through SS05, respectively to account for two samples at each delineation borehole. Soil from the boreholes was field screened using a PID and Hach® chloride QuanTab® test strips. The delineation soil samples were collected, handled, and



analyzed as described above and submitted to Xenco in Carlsbad, New Mexico. The delineation soil sample locations and depths are depicted on Figure 4 and lithologic/soil sampling logs are included in Attachment 2.

ANALYTICAL RESULTS

Discrete preliminary soil samples SS01 through SS07 were collected from within the release extent. Laboratory analytical results indicated that total BTEX, TPH-GRO, TPH-DRO, TPH, and/or chloride concentrations exceeded the Closure Criteria in preliminary soil samples SS06 and SS07, which were collected at the release point. Laboratory analytical results of the remaining preliminary soil samples indicated compliance with Closure Criteria.

Excavation confirmation samples were collected following removal of soil from near preliminary soil samples SS06 and SS07. Laboratory analytical results from excavation confirmation samples indicated that sidewall (SW01 through SW05) and floor (FS01 through FS05) confirmation soil samples were below Closure Criteria.

Delineation samples collected from the subsurface beneath the previously collected preliminary samples to investigate the subsurface of the release footprint that had not been excavated indicated that all delineation soil samples were below Closure Criteria. Laboratory analytical results are presented on Figures 3 and 4 and summarized in Table 1, and the laboratory analytical reports are included in Attachment 3.

CONCLUSIONS

Approximately 7.04 barrels (bbls) of crude oil and 1,401.2 bbls of produced water was released from an October 8, 2019 transfer line strike; however, approximately 6.6 bbls of crude oil and approximately 1,313.4 bbls of produced water were recovered and returned to the system. Soil located above the pipeline was excavated prior to the October 8, 2019 line strike.

Initial assessment samples SS06 and SS07 exceeded Closure Criteria and approximately 222 cubic yards of soil were hydro excavated. Laboratory analytical results for floor (FS01 through FS05) and sidewall (SW01 through SW05) confirmation soil samples indicated benzene, BTEX, GRO and DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Final delineation soil samples SS01/BH07, SS02/BH06, SS03/BH03, SS04/BH05, and SS05/BH04 were collected from within the release extent and did not exceed Closure Criteria.

Based on the excavation activities and results from the soil confirmation and delineation sampling activities conducted, XTO is submitting this Closure Request and asking for NFA for RP Number 2RP-5704 for this October 8, 2019 release. XTO further request permission to backfill the excavation. The excavation is located within the pipeline ROW and will be restored to surface conditions prior to the release.

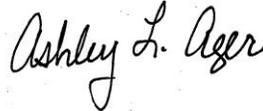


If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,
LT ENVIRONMENTAL, INC.



Kevin M. Axe, P.G.
Senior Geologist



Ashley L. Ager, P.G.
Senior Geologist

cc: Mr. Kyle Littrell, XTO
Mr. Robert Hamlet, NMOCD
Ms. Victoria Venegas, NMOCD
Bureau of Land Management

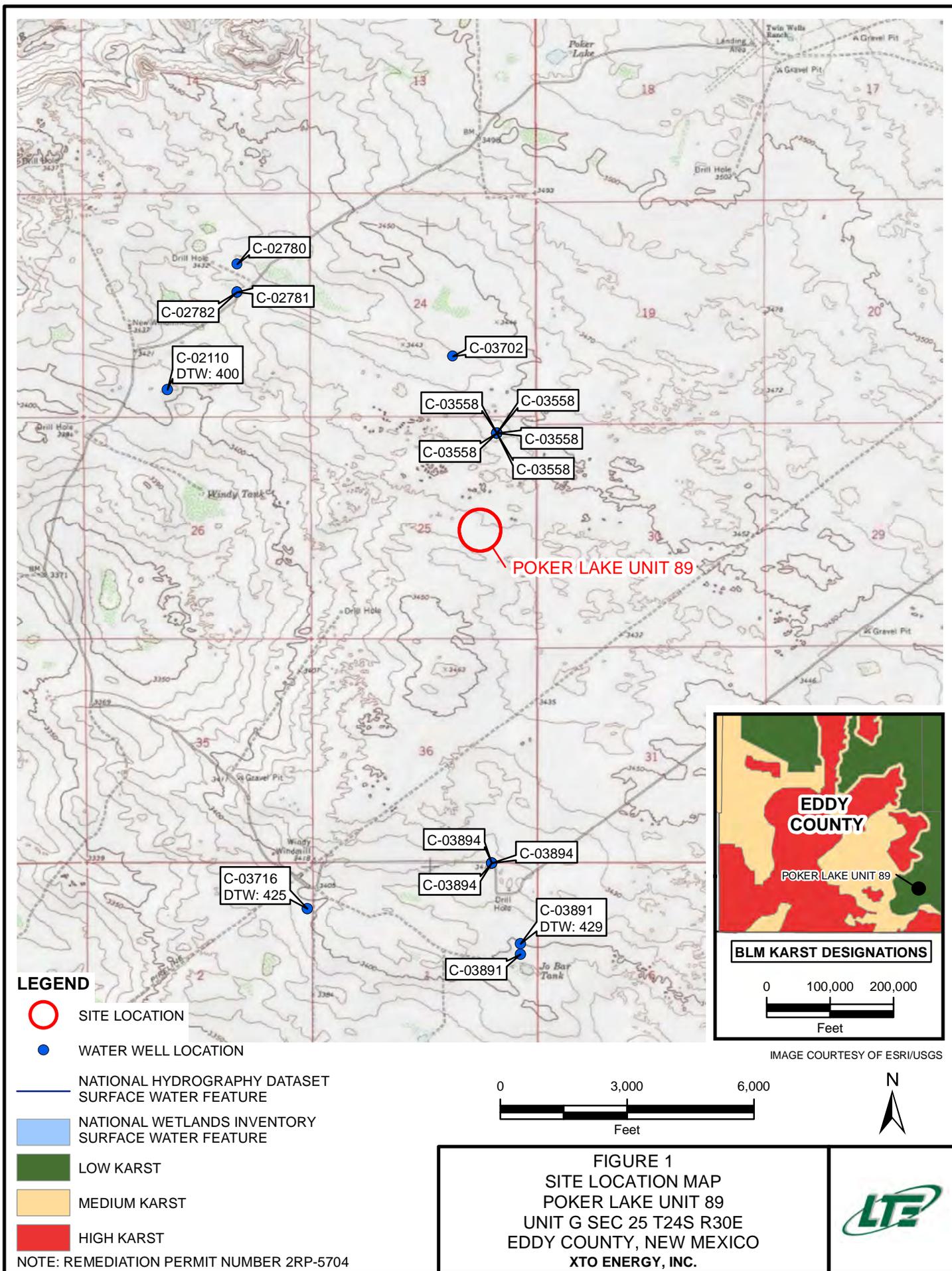
Appendices:

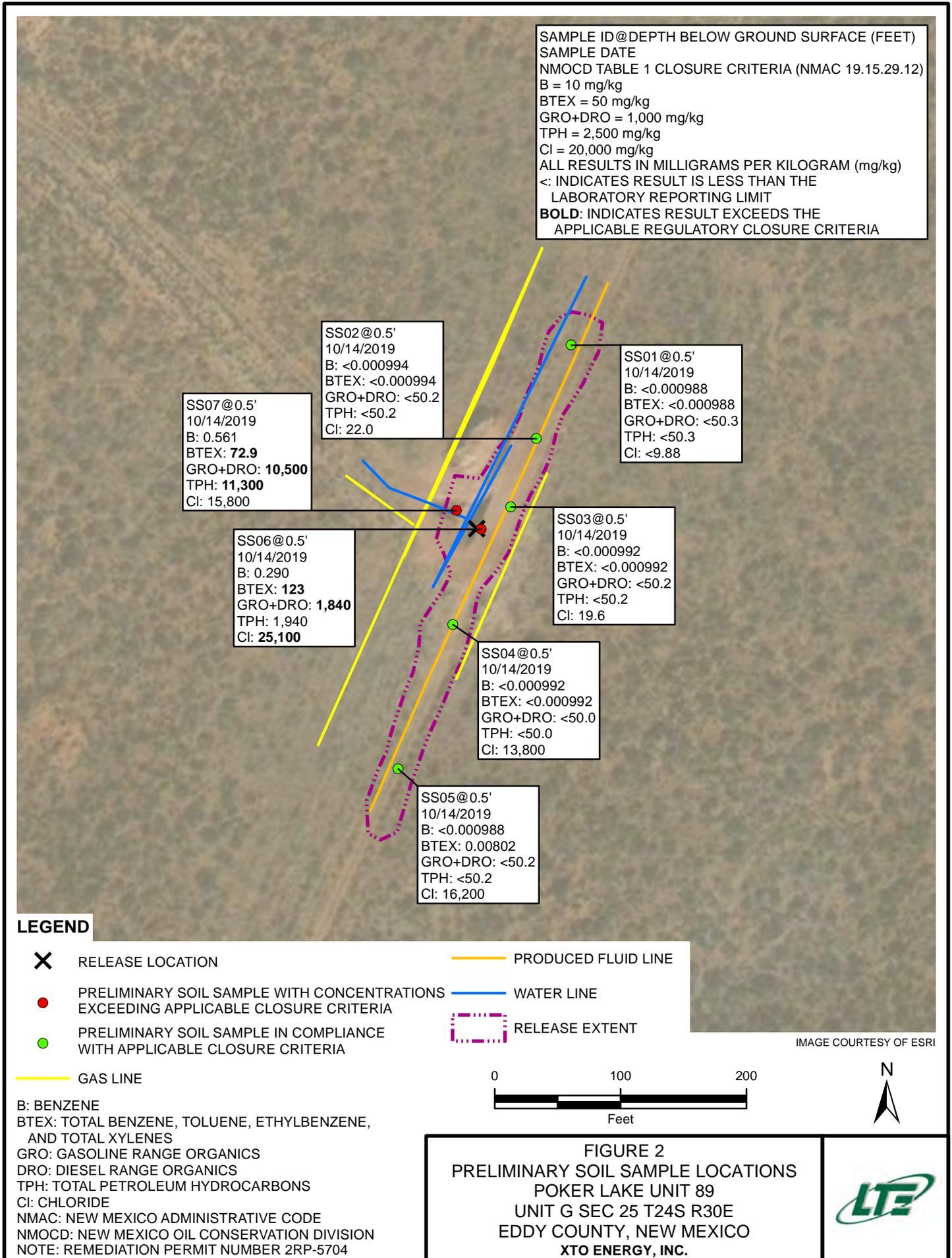
Figure 1 Site Location Map
Figure 2 Preliminary Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Figure 4 Delineation Soil Sample Locations
Figure 5 Soil Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Photographic Log
Attachment 2 Lithologic/Soil Sampling Logs
Attachment 3 Laboratory Analytical Reports

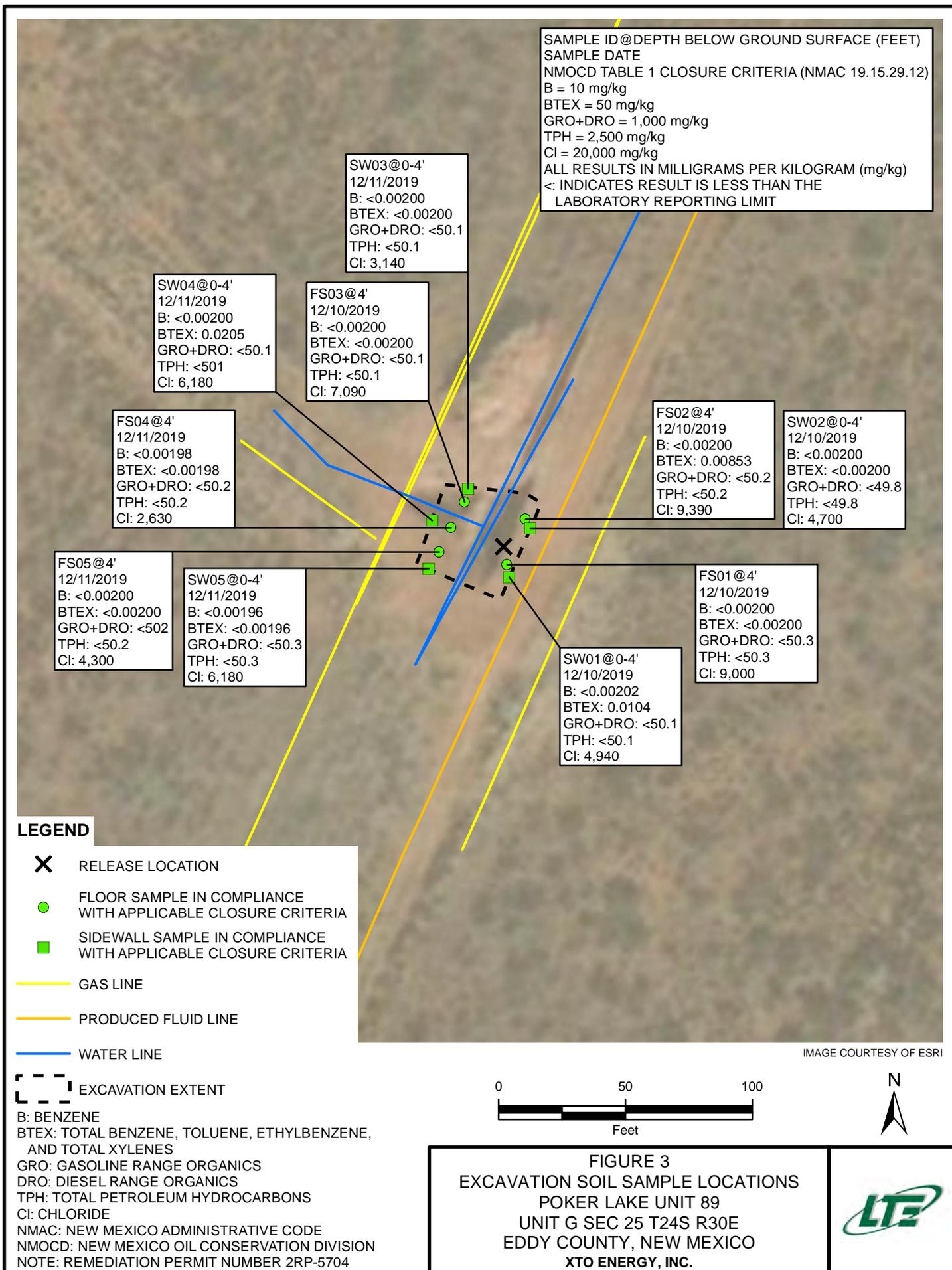


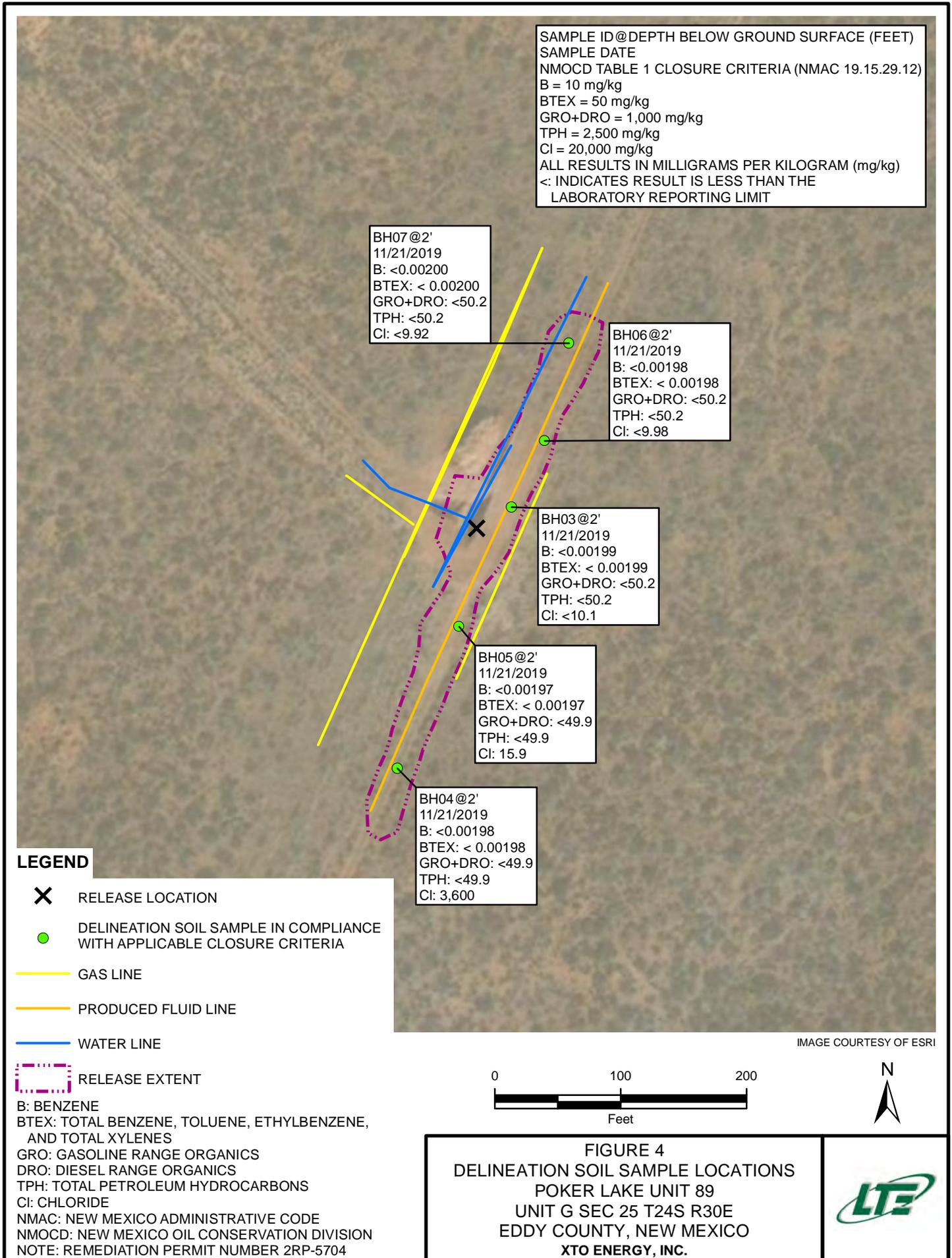
FIGURES

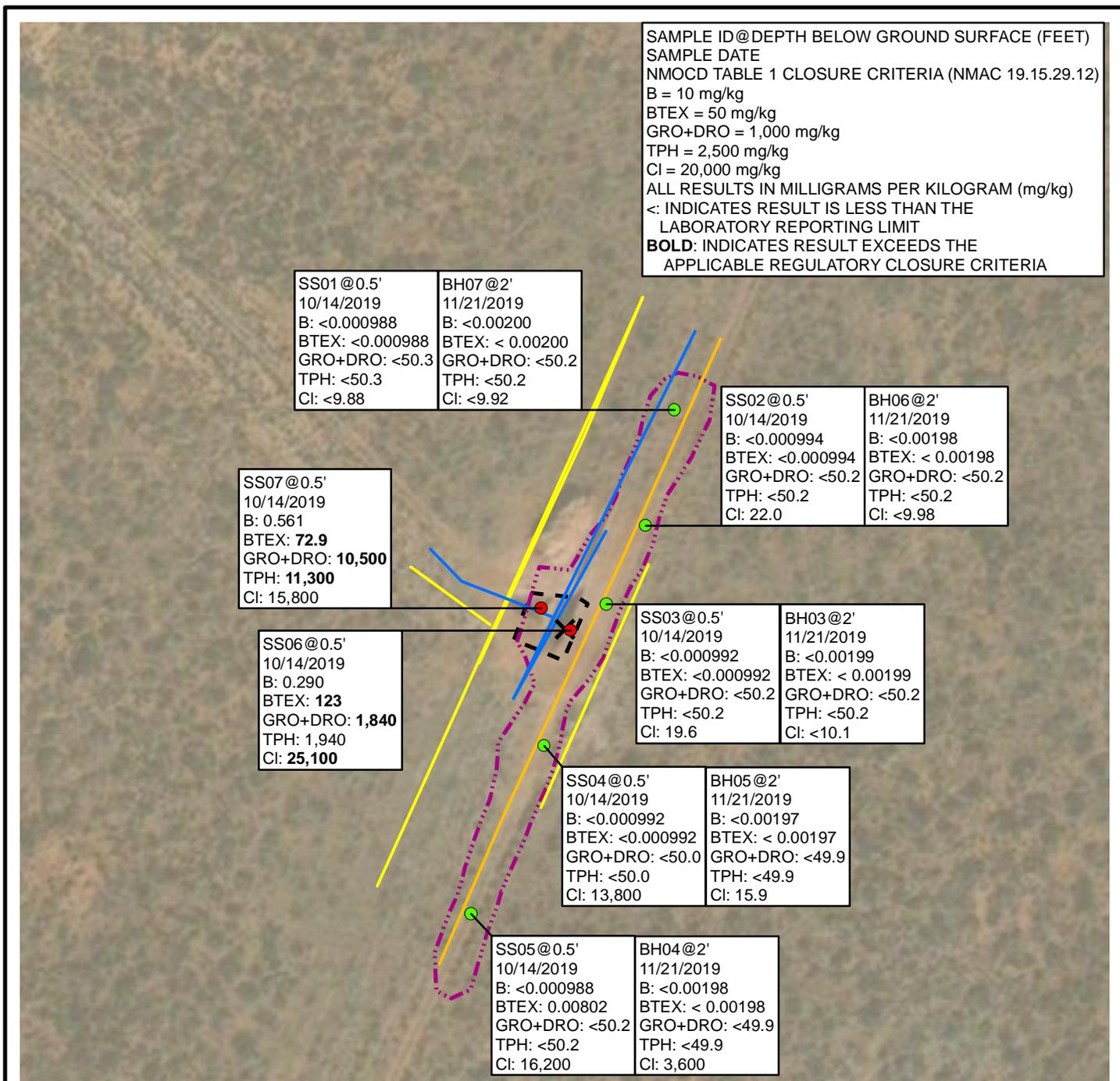












LEGEND

- RELEASE LOCATION
- SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- GAS LINE
- PRODUCED FLUID LINE
- WATER LINE
- RELEASE EXTENT

B: BENZENE
 BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
 GRO: GASOLINE RANGE ORGANICS
 DRO: DIESEL RANGE ORGANICS
 TPH: TOTAL PETROLEUM HYDROCARBONS
 Cl: CHLORIDE
 NMAC: NEW MEXICO ADMINISTRATIVE CODE
 NMOCOD: NEW MEXICO OIL CONSERVATION DIVISION
 NOTE: REMEDIATION PERMIT NUMBER 2RP-5704

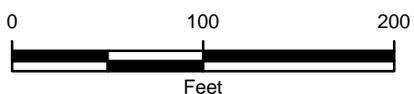


IMAGE COURTESY OF ESRI

FIGURE 5
SOIL SAMPLE LOCATIONS
 POKER LAKE UNIT 89
 UNIT G SEC 25 T24S R30E
 EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES



**TABLE 1
SOIL ANALYTICAL RESULTS**

**POKER LAKE UNIT 89
REMEDIATION PERMIT NUMBER 2RP-5704
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.**

| Sample Name | Sample Depth (feet bgs) | Sample Date | Benzene (mg/kg) | Toluene (mg/kg) | Ethyl-benzene (mg/kg) | Total Xylenes (mg/kg) | Total BTEX (mg/kg) | GRO (mg/kg) | DRO (mg/kg) | ORO (mg/kg) | Total GRO+DRO (mg/kg) | TPH (mg/kg) | Chloride (mg/kg) |
|--|-------------------------|-------------|-----------------|-----------------|-----------------------|-----------------------|--------------------|-------------|-------------|-------------|-----------------------|---------------|------------------|
| NMOCDC Table 1 Closure Criteria | | | 10 | NE | NE | NE | 50 | NE | NE | NE | 1,000 | 2,500 | 20,000 |
| SS01 | 0.5 | 10/14/2019 | <0.000988 | <0.000988 | <0.000988 | <0.000988 | <0.000988 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | <9.88 |
| SS02 | 0.5 | 10/14/2019 | <0.000994 | <0.000994 | <0.000994 | <0.000994 | <0.000994 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 22.0 |
| SS03 | 0.5 | 10/14/2019 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 19.6 |
| SS04 | 0.5 | 10/14/2019 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <0.000992 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | 13,800 |
| SS05 | 0.5 | 10/14/2019 | <0.000988 | 0.00265 | 0.00108 | 0.00429 | 0.00802 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 16,200 |
| SS06 | 0.5 | 10/14/2019 | 0.290 | 17.5 | 17.4 | 88.2 | 123 | 427 | 1,410 | 102 | 1,840 | 1,940 | 25,100 |
| SS07 | 0.5 | 10/14/2019 | 0.561 | 14.8 | 7.28 | 50.3 | 72.9 | 1,530 | 8,930 | 794 | 10,500 | 11,300 | 15,800 |
| BH03 | 2 | 11/21/2019 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <0.00199 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | <10.1 |
| BH04 | 2 | 11/21/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 3,600 |
| BH05 | 2 | 11/21/2019 | <0.00197 | <0.00197 | <0.00197 | <0.00197 | <0.00197 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | 15.9 |
| BH06 | 2 | 11/21/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | <9.98 |
| BH07 | 2 | 11/21/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | <9.92 |
| SW01 | 0 - 4 | 12/10/2019 | <0.00202 | <0.00202 | <0.00202 | 0.0104 | 0.0104 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 4,940 |
| SW02 | 0 - 4 | 12/10/2019 | <0.00200 | <0.00200 | <0.00200 | 0.00727 | 0.00727 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | 4,700 |
| SW03 | 0 - 4 | 12/11/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 3,140 |
| SW04 | 0 - 4 | 12/11/2019 | <0.00200 | 0.004 | 0.00224 | 0.0143 | 0.0205 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 6,180 |
| SW05 | 0 - 4 | 12/11/2019 | <0.00196 | <0.00196 | <0.00196 | <0.00196 | <0.00196 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 6,180 |
| FS01 | 4 | 12/10/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.3 | <50.3 | <50.3 | <50.3 | <50.3 | 9,000 |
| FS02 | 4 | 12/10/2019 | <0.00200 | <0.00200 | <0.00200 | 0.00853 | 0.00853 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 9,390 |
| FS03 | 4 | 12/10/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.1 | <50.1 | <50.1 | <50.1 | <50.1 | 7,090 |
| FS04 | 4 | 12/11/2019 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <0.00198 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 2,630 |
| FS05 | 4 | 12/11/2019 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 | <50.2 | <50.2 | <50.2 | <50.2 | <50.2 | 4,300 |

Notes:

bgs - below ground surface
 BTEX - benzene, toluene, ethylbenzene, and total xylenes
 DRO - diesel range organics
 GRO - gasoline range organics
 mg/kg - milligrams per kilogram

MRO - motor oil range organics
 NMAC - New Mexico Administrative Code
 NMOCDC - New Mexico Oil Conservation Division
 NE - not established
 TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard
 < - indicates result is below laboratory reporting limits
 Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018



ATTACHMENT 1: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG



Photograph 1: East facing view of release point.



Photograph 2: East facing view of excavation surrounding release point.



Photograph 3: North facing view of excavation surrounding release point.



Photograph 4: Northwest facing view of final excavation.

Poker Lake Unit 89
Eddy County, New Mexico
Photographs Taken: October 14, 2019 – December 11, 2019



ATTACHMENT 2: LITHOLOGIC SOIL SAMPLE LOGS





LT Environmental, Inc.
 508 West Stevens Street
 Carlsbad, New Mexico 88220
 Compliance · Engineering · Remediation

| | |
|------------------------------------|-----------------------------------|
| Identifier: BH03 | Date: 11/21/19 |
| Project Name: PLU 89 SWP | RP Number: not assigned |
| Logged By: Ellie | Method: |
| Hole Diameter: | Total Depth: |

LITHOLOGIC / SOIL SAMPLING LOG

Lab Log: Field Screening

Comments:

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
|------------------|----------------|-------------|----------|----------|------------------|--------------|----------------|--------------------------------|
| | | | | | 1 | | | |
| D | >112 | 0.0 | N | | 2 | 2ft | S | sand, trace silt, brown |
| | | | | | 3 | | | |
| | | | | | 4 | | | |
| | | | | | 6 | | | |
| | | | | | 8 | | | |
| | | | | | 10 | | | |
| | | | | | 12 | | | |
| | | | | | 14 | | | |
| | | | | | 16 | | | |
| | | | | | 18 | | | |
| | | | | | 20 | | | |
| | | | | | 12 | | | |

1520



LT Environmental, Inc.
 508 West Stevens Street
 Carlsbad, New Mexico 88220

Compliance · Engineering · Remediation

Identifier:
BH04

Date:
11/21/19

Project Name:
PLU 89 SWD

RP Number:
not assigned

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: **Ellie**

Method:

Lat/Long:

Field Screening:

Hole Diameter:

Total Depth:

Comments:

1530

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
|------------------|----------------|-------------|----------|----------|------------------|--------------|----------------|-------------------------|
| | | | | | 1 | | | |
| D | 4,460 | 0.0 | N | | 2 | 2ft | S | sand, trace silt, brown |
| | | | | | 3 | | | |
| | | | | | 4 | | | |
| | | | | | 6 | | | |
| | | | | | 8 | | | |
| | | | | | 10 | | | |
| | | | | | 12 | | | |
| | | | | | 14 | | | |
| | | | | | 16 | | | |
| | | | | | 18 | | | |
| | | | | | 20 | | | |
| | | | | | 12 | | | |



LT Environmental, Inc.
Quality Services



LT Environmental, Inc.
 508 West Stevens Street
 Carlsbad, New Mexico 88220

Compliance · Engineering · Remediation

Identifier:

BH05

Date:

11/21/19

Project Name:

PLU 89 SWD

RP Number:

not assigned

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: ELL

Method:

Lat/Long:

Field Screening:

Hole Diameter:

Total Depth:

Comments:

1540

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
|------------------|----------------|-------------|----------|----------|------------------|--------------|----------------|-------------------------|
| 0 | >112 | 0.1 | N | | 1 | | | |
| | | | | | 2 | 2ft | S | sand, trace silt, brown |
| | | | | | 3 | | | |
| | | | | | 4 | | | |
| | | | | | 6 | | | |
| | | | | | 8 | | | |
| | | | | | 10 | | | |
| | | | | | 12 | | | |
| | | | | | 14 | | | |
| | | | | | 16 | | | |
| | | | | | 18 | | | |
| | | | | | 20 | | | |
| | | | | | 12 | | | |



LT Environmental, Inc.
 508 West Stevens Street
 Carlsbad, New Mexico 88220
 Compliance · Engineering · Remediation

| | |
|------------------------------------|-----------------------------------|
| Identifier: BH06 | Date: 11/21/19 |
| Project Name: PLU 89 SWD | RP Number: not assigned |

LITHOLOGIC / SOIL SAMPLING LOG

| | | | |
|-----------|------------------|-------------------------|--------------|
| Lat/Long: | Field Screening: | Logged By: Ellie | Method: |
| | | Hole Diameter: | Total Depth: |

Comments:

1165

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
|------------------|----------------|-------------|----------|----------|------------------|--------------|----------------|-----------------------------------|
| | | | | | 1 | | | |
| D | >112 | 0.1 | N | | 2 | 2ft | S | sand, trace caliche, brown to tan |
| | | | | | 3 | | | |
| | | | | | 4 | | | |
| | | | | | 6 | | | |
| | | | | | 8 | | | |
| | | | | | 10 | | | |
| | | | | | 12 | | | |
| | | | | | 14 | | | |
| | | | | | 16 | | | |
| | | | | | 18 | | | |
| | | | | | 20 | | | |
| | | | | | 12 | | | |



LT Environmental, Inc.
 508 West Stevens Street
 Carlsbad, New Mexico 88220

Compliance · Engineering · Remediation

Identifier:

BMO7

Date:

11/21/19

Project Name:

PLU 99 SWP

RP Number:

not assigned

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Ellie

Method:

Lat/Long:

Field Screening:

Hole Diameter:

Total Depth:

Comments:

1615

| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Depth | Soil/Rock Type | Lithology/Remarks |
|------------------|----------------|-------------|----------|----------|------------------|--------------|----------------|-------------------------|
| | | | | | 1 | | | |
| D | >12 | 0.0 | N | | 2 | 2ft | S | sand, trace silt, brown |
| | | | | | 3 | | | |
| | | | | | 4 | | | |
| | | | | | 6 | | | |
| | | | | | 8 | | | |
| | | | | | 10 | | | |
| | | | | | 12 | | | |
| | | | | | 14 | | | |
| | | | | | 16 | | | |
| | | | | | 18 | | | |
| | | | | | 20 | | | |
| | | | | | 12 | | | |

ATTACHMENT 3 : LABORATORY ANALYTICAL REPORTS



Analytical Report 639886

for
LT Environmental, Inc.

Project Manager: Dan Moir

PLU 89 SWD Line

012919246

15-OCT-19

Collected By: Client



**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



15-OCT-19

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **639886**

PLU 89 SWD Line

Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 639886. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 639886 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, slightly slanted style.

Jessica Kramer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SS01 | S | 10-14-19 10:50 | 0.5 ft | 639886-001 |
| SS02 | S | 10-14-19 10:52 | 0.5 ft | 639886-002 |
| SS03 | S | 10-14-19 10:53 | 0.5 ft | 639886-003 |
| SS04 | S | 10-14-19 10:54 | 0.5 ft | 639886-004 |
| SS05 | S | 10-14-19 10:56 | 0.5 ft | 639886-005 |
| SS06 | S | 10-14-19 10:57 | 0.5 ft | 639886-006 |
| SS07 | S | 10-14-19 10:59 | 0.5 ft | 639886-007 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU 89 SWD Line

Project ID: 012919246
Work Order Number(s): 639886

Report Date: 15-OCT-19
Date Received: 10/14/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3104315 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 639886-007,639886-006.

Batch: LBA-3104322 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 639886-007.



Certificate of Analysis Summary 639886

LT Environmental, Inc., Arvada, CO

Project Name: PLU 89 SWD Line

Project Id: 012919246
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Mon Oct-14-19 01:56 pm
Report Date: 15-OCT-19
Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 639886-001 | 639886-002 | 639886-003 | 639886-004 | 639886-005 | 639886-006 | | | | | |
|------------------------------------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------|-----------|----------|--------|---------|
| | <i>Field Id:</i> | SS01 | SS02 | SS03 | SS04 | SS05 | SS06 | | | | | |
| | <i>Depth:</i> | 0.5- ft | | | | | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | | | | | |
| | <i>Sampled:</i> | Oct-14-19 10:50 | Oct-14-19 10:52 | Oct-14-19 10:53 | Oct-14-19 10:54 | Oct-14-19 10:56 | Oct-14-19 10:57 | | | | | |
| BTEX by EPA 8021B | <i>Extracted:</i> | Oct-14-19 16:10 | | | | | |
| | <i>Analyzed:</i> | Oct-14-19 20:10 | Oct-14-19 20:29 | Oct-14-19 20:48 | Oct-14-19 21:07 | Oct-14-19 21:26 | Oct-14-19 21:45 | | | | | |
| | <i>Units/RL:</i> | mg/kg RL | | | | | |
| Benzene | <0.000988 | 0.000988 | <0.000994 | 0.000994 | <0.000992 | 0.000992 | <0.000992 | 0.000992 | <0.000988 | 0.000988 | 0.290 | 0.00495 |
| Toluene | <0.000988 | 0.000988 | <0.000994 | 0.000994 | <0.000992 | 0.000992 | <0.000992 | 0.000992 | 0.00265 | 0.000988 | 17.5 D | 0.990 |
| Ethylbenzene | <0.000988 | 0.000988 | <0.000994 | 0.000994 | <0.000992 | 0.000992 | <0.000992 | 0.000992 | 0.00108 | 0.000988 | 17.4 D | 0.990 |
| m,p-Xylenes | <0.00198 | 0.00198 | <0.00199 | 0.00199 | <0.00198 | 0.00198 | <0.00198 | 0.00198 | 0.00291 | 0.00198 | 61.5 D | 1.98 |
| o-Xylene | <0.000988 | 0.000988 | <0.000994 | 0.000994 | <0.000992 | 0.000992 | <0.000992 | 0.000992 | 0.00138 | 0.000988 | 26.7 D | 0.990 |
| Total Xylenes | <0.000988 | 0.000988 | <0.000994 | 0.000994 | <0.000992 | 0.000992 | <0.000992 | 0.000992 | 0.00429 | 0.000988 | 88.2 | 0.990 |
| Total BTEX | <0.000988 | 0.000988 | <0.000994 | 0.000994 | <0.000992 | 0.000992 | <0.000992 | 0.000992 | 0.00802 | 0.000988 | 123 | 0.00495 |
| Chloride by EPA 300 | <i>Extracted:</i> | Oct-14-19 18:10 | | | | | |
| | <i>Analyzed:</i> | Oct-14-19 19:59 | Oct-14-19 20:05 | Oct-14-19 20:12 | Oct-14-19 20:18 | Oct-14-19 20:24 | Oct-14-19 20:31 | | | | | |
| | <i>Units/RL:</i> | mg/kg RL | | | | | |
| Chloride | <9.88 | 9.88 | 22.0 | 9.98 | 19.6 | 9.90 | 13800 | 499 | 16200 | 497 | 25100 | 992 |
| TPH by SW8015 Mod | <i>Extracted:</i> | *** ** * | *** ** * | *** ** * | *** ** * | *** ** * | *** ** * | | | | | |
| | <i>Analyzed:</i> | Oct-14-19 23:10 | Oct-14-19 23:29 | Oct-14-19 23:49 | Oct-15-19 00:09 | Oct-15-19 00:29 | Oct-15-19 01:28 | | | | | |
| | <i>Units/RL:</i> | mg/kg RL | | | | | |
| Gasoline Range Hydrocarbons (GRO) | <50.3 | 50.3 | <50.2 | 50.2 | <50.2 | 50.2 | <50.0 | 50.0 | <50.2 | 50.2 | 427 | 50.2 |
| Diesel Range Organics (DRO) | <50.3 | 50.3 | <50.2 | 50.2 | <50.2 | 50.2 | <50.0 | 50.0 | <50.2 | 50.2 | 1410 | 50.2 |
| Motor Oil Range Hydrocarbons (MRO) | <50.3 | 50.3 | <50.2 | 50.2 | <50.2 | 50.2 | <50.0 | 50.0 | <50.2 | 50.2 | 102 | 50.2 |
| Total GRO-DRO | <50.3 | 50.3 | <50.2 | 50.2 | <50.2 | 50.2 | <50.0 | 50.0 | <50.2 | 50.2 | 1840 | 50.2 |
| Total TPH | <50.3 | 50.3 | <50.2 | 50.2 | <50.2 | 50.2 | <50.0 | 50.0 | <50.2 | 50.2 | 1940 | 50.2 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.9%

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 639886

LT Environmental, Inc., Arvada, CO

Project Name: PLU 89 SWD Line

Project Id: 012919246
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Mon Oct-14-19 01:56 pm
Report Date: 15-OCT-19
Project Manager: Jessica Kramer

| | | | | | | |
|----------------------------|------------------------------------|-----------------|--|--|--|--|
| Analysis Requested | Lab Id: | 639886-007 | | | | |
| | Field Id: | SS07 | | | | |
| | Depth: | 0.5- ft | | | | |
| | Matrix: | SOIL | | | | |
| | Sampled: | Oct-14-19 10:59 | | | | |
| BTEX by EPA 8021B | Extracted: | Oct-14-19 16:10 | | | | |
| | Analyzed: | Oct-14-19 22:05 | | | | |
| | Units/RL: | mg/kg RL | | | | |
| | Benzene | 0.561 0.0198 | | | | |
| | Toluene | 14.8 D 0.198 | | | | |
| | Ethylbenzene | 7.28 0.0198 | | | | |
| | m,p-Xylenes | 35.0 D 0.395 | | | | |
| | o-Xylene | 15.3 D 0.198 | | | | |
| Total Xylenes | 50.3 0.198 | | | | | |
| Total BTEX | 72.9 0.0198 | | | | | |
| Chloride by EPA 300 | Extracted: | Oct-14-19 18:10 | | | | |
| | Analyzed: | Oct-14-19 20:37 | | | | |
| | Units/RL: | mg/kg RL | | | | |
| Chloride | 15800 496 | | | | | |
| TPH by SW8015 Mod | Extracted: | ** ** * ** * | | | | |
| | Analyzed: | Oct-15-19 00:49 | | | | |
| | Units/RL: | mg/kg RL | | | | |
| | Gasoline Range Hydrocarbons (GRO) | 1530 251 | | | | |
| | Diesel Range Organics (DRO) | 8930 251 | | | | |
| | Motor Oil Range Hydrocarbons (MRO) | 794 251 | | | | |
| | Total GRO-DRO | 10500 251 | | | | |
| Total TPH | 11300 251 | | | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.0%

Jessica Kramer
Project Assistant



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

Sample Id: **SS01** Matrix: Soil Date Received: 10.14.19 13.56
 Lab Sample Id: 639886-001 Date Collected: 10.14.19 10.50 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 10.14.19 18.10 Basis: Wet Weight
 Seq Number: 3104255

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <9.88 | 9.88 | mg/kg | 10.14.19 19.59 | U | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 10.14.19 12.10 Basis: Wet Weight
 Seq Number: 3104322

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | mg/kg | 10.14.19 23.10 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.3 | 50.3 | mg/kg | 10.14.19 23.10 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.3 | 50.3 | mg/kg | 10.14.19 23.10 | U | 1 |
| Total GRO-DRO | PHC628 | <50.3 | 50.3 | mg/kg | 10.14.19 23.10 | U | 1 |
| Total TPH | PHC635 | <50.3 | 50.3 | mg/kg | 10.14.19 23.10 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 10.14.19 23.10 | |
| o-Terphenyl | 84-15-1 | 83 | % | 70-135 | 10.14.19 23.10 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SS01 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-001 | Date Collected: 10.14.19 10.50 | Sample Depth: 0.5 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 16.10 | Basis: Wet Weight |
| Seq Number: 3104315 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|----------|--------------|----------------|----------------------|-------------|
| Benzene | 71-43-2 | <0.000988 | 0.000988 | mg/kg | 10.14.19 20.10 | U | 1 |
| Toluene | 108-88-3 | <0.000988 | 0.000988 | mg/kg | 10.14.19 20.10 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.000988 | 0.000988 | mg/kg | 10.14.19 20.10 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00198 | 0.00198 | mg/kg | 10.14.19 20.10 | U | 1 |
| o-Xylene | 95-47-6 | <0.000988 | 0.000988 | mg/kg | 10.14.19 20.10 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000988 | 0.000988 | mg/kg | 10.14.19 20.10 | U | 1 |
| Total BTEX | | <0.000988 | 0.000988 | mg/kg | 10.14.19 20.10 | U | 1 |
| Surrogate | Cas Number | % Recovery | | Units | Limits | Analysis Date | Flag |
| 4-Bromofluorobenzene | 460-00-4 | 113 | | % | 70-130 | 10.14.19 20.10 | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | | % | 70-130 | 10.14.19 20.10 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--|--------------------------------|-------------------------------|
| Sample Id: SS02 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-002 | Date Collected: 10.14.19 10.52 | Sample Depth: 0.5 ft |
| Analytical Method: Chloride by EPA 300 | | Prep Method: E300P |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 18.10 | Basis: Wet Weight |
| Seq Number: 3104255 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 22.0 | 9.98 | mg/kg | 10.14.19 20.05 | | 1 |

| | | |
|--------------------------------------|---------------------------|----------------------|
| Analytical Method: TPH by SW8015 Mod | | Prep Method: SW8015P |
| Tech: DTH | | % Moisture: |
| Analyst: DTH | Date Prep: 10.14.19 12.10 | Basis: Wet Weight |
| Seq Number: 3104322 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 10.14.19 23.29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 10.14.19 23.29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 10.14.19 23.29 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 10.14.19 23.29 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 10.14.19 23.29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 81 | % | 70-135 | 10.14.19 23.29 | |
| o-Terphenyl | 84-15-1 | 76 | % | 70-135 | 10.14.19 23.29 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SS02 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-002 | Date Collected: 10.14.19 10.52 | Sample Depth: 0.5 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 16.10 | Basis: Wet Weight |
| Seq Number: 3104315 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|----------|--------------|----------------|----------------------|-------------|
| Benzene | 71-43-2 | <0.000994 | 0.000994 | mg/kg | 10.14.19 20.29 | U | 1 |
| Toluene | 108-88-3 | <0.000994 | 0.000994 | mg/kg | 10.14.19 20.29 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.000994 | 0.000994 | mg/kg | 10.14.19 20.29 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00199 | 0.00199 | mg/kg | 10.14.19 20.29 | U | 1 |
| o-Xylene | 95-47-6 | <0.000994 | 0.000994 | mg/kg | 10.14.19 20.29 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000994 | 0.000994 | mg/kg | 10.14.19 20.29 | U | 1 |
| Total BTEX | | <0.000994 | 0.000994 | mg/kg | 10.14.19 20.29 | U | 1 |
| Surrogate | Cas Number | % Recovery | | Units | Limits | Analysis Date | Flag |
| 1,4-Difluorobenzene | 540-36-3 | 106 | | % | 70-130 | 10.14.19 20.29 | |
| 4-Bromofluorobenzene | 460-00-4 | 112 | | % | 70-130 | 10.14.19 20.29 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

Sample Id: **SS03** Matrix: Soil Date Received: 10.14.19 13.56
 Lab Sample Id: 639886-003 Date Collected: 10.14.19 10.53 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 10.14.19 18.10 Basis: Wet Weight
 Seq Number: 3104255

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 19.6 | 9.90 | mg/kg | 10.14.19 20.12 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 10.14.19 12.10 Basis: Wet Weight
 Seq Number: 3104322

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 10.14.19 23.49 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 10.14.19 23.49 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 10.14.19 23.49 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 10.14.19 23.49 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 10.14.19 23.49 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-135 | 10.14.19 23.49 | |
| o-Terphenyl | 84-15-1 | 93 | % | 70-135 | 10.14.19 23.49 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SS03 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-003 | Date Collected: 10.14.19 10.53 | Sample Depth: 0.5 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 16.10 | Basis: Wet Weight |
| Seq Number: 3104315 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|----------|--------------|----------------|----------------------|-------------|
| Benzene | 71-43-2 | <0.000992 | 0.000992 | mg/kg | 10.14.19 20.48 | U | 1 |
| Toluene | 108-88-3 | <0.000992 | 0.000992 | mg/kg | 10.14.19 20.48 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.000992 | 0.000992 | mg/kg | 10.14.19 20.48 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00198 | 0.00198 | mg/kg | 10.14.19 20.48 | U | 1 |
| o-Xylene | 95-47-6 | <0.000992 | 0.000992 | mg/kg | 10.14.19 20.48 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000992 | 0.000992 | mg/kg | 10.14.19 20.48 | U | 1 |
| Total BTEX | | <0.000992 | 0.000992 | mg/kg | 10.14.19 20.48 | U | 1 |
| Surrogate | Cas Number | % Recovery | | Units | Limits | Analysis Date | Flag |
| 4-Bromofluorobenzene | 460-00-4 | 119 | | % | 70-130 | 10.14.19 20.48 | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | | % | 70-130 | 10.14.19 20.48 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--|--------------------------------|-------------------------------|
| Sample Id: SS04 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-004 | Date Collected: 10.14.19 10.54 | Sample Depth: 0.5 ft |
| Analytical Method: Chloride by EPA 300 | | Prep Method: E300P |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 18.10 | Basis: Wet Weight |
| Seq Number: 3104255 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 13800 | 499 | mg/kg | 10.14.19 20.18 | | 50 |

| | | |
|--------------------------------------|---------------------------|----------------------|
| Analytical Method: TPH by SW8015 Mod | | Prep Method: SW8015P |
| Tech: DTH | | % Moisture: |
| Analyst: DTH | Date Prep: 10.14.19 12.10 | Basis: Wet Weight |
| Seq Number: 3104322 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.0 | 50.0 | mg/kg | 10.15.19 00.09 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.0 | 50.0 | mg/kg | 10.15.19 00.09 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.0 | 50.0 | mg/kg | 10.15.19 00.09 | U | 1 |
| Total GRO-DRO | PHC628 | <50.0 | 50.0 | mg/kg | 10.15.19 00.09 | U | 1 |
| Total TPH | PHC635 | <50.0 | 50.0 | mg/kg | 10.15.19 00.09 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-135 | 10.15.19 00.09 | |
| o-Terphenyl | 84-15-1 | 78 | % | 70-135 | 10.15.19 00.09 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SS04 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-004 | Date Collected: 10.14.19 10.54 | Sample Depth: 0.5 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 16.10 | Basis: Wet Weight |
| Seq Number: 3104315 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.000992 | 0.000992 | mg/kg | 10.14.19 21.07 | U | 1 |
| Toluene | 108-88-3 | <0.000992 | 0.000992 | mg/kg | 10.14.19 21.07 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.000992 | 0.000992 | mg/kg | 10.14.19 21.07 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00198 | 0.00198 | mg/kg | 10.14.19 21.07 | U | 1 |
| o-Xylene | 95-47-6 | <0.000992 | 0.000992 | mg/kg | 10.14.19 21.07 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.000992 | 0.000992 | mg/kg | 10.14.19 21.07 | U | 1 |
| Total BTEX | | <0.000992 | 0.000992 | mg/kg | 10.14.19 21.07 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | % | 70-130 | 10.14.19 21.07 | | |
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 10.14.19 21.07 | | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--|--------------------------------|-------------------------------|
| Sample Id: SS05 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-005 | Date Collected: 10.14.19 10.56 | Sample Depth: 0.5 ft |
| Analytical Method: Chloride by EPA 300 | | Prep Method: E300P |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 18.10 | Basis: Wet Weight |
| Seq Number: 3104255 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 16200 | 497 | mg/kg | 10.14.19 20.24 | | 50 |

| | | |
|--------------------------------------|---------------------------|----------------------|
| Analytical Method: TPH by SW8015 Mod | | Prep Method: SW8015P |
| Tech: DTH | | % Moisture: |
| Analyst: DTH | Date Prep: 10.14.19 12.10 | Basis: Wet Weight |
| Seq Number: 3104322 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 10.15.19 00.29 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 10.15.19 00.29 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 10.15.19 00.29 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 10.15.19 00.29 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 10.15.19 00.29 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 90 | % | 70-135 | 10.15.19 00.29 | |
| o-Terphenyl | 84-15-1 | 89 | % | 70-135 | 10.15.19 00.29 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SS05 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-005 | Date Collected: 10.14.19 10.56 | Sample Depth: 0.5 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 16.10 | Basis: Wet Weight |
| Seq Number: 3104315 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|----------|--------------|----------------|----------------------|-------------|
| Benzene | 71-43-2 | <0.000988 | 0.000988 | mg/kg | 10.14.19 21.26 | U | 1 |
| Toluene | 108-88-3 | 0.00265 | 0.000988 | mg/kg | 10.14.19 21.26 | | 1 |
| Ethylbenzene | 100-41-4 | 0.00108 | 0.000988 | mg/kg | 10.14.19 21.26 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.00291 | 0.00198 | mg/kg | 10.14.19 21.26 | | 1 |
| o-Xylene | 95-47-6 | 0.00138 | 0.000988 | mg/kg | 10.14.19 21.26 | | 1 |
| Total Xylenes | 1330-20-7 | 0.00429 | 0.000988 | mg/kg | 10.14.19 21.26 | | 1 |
| Total BTEX | | 0.00802 | 0.000988 | mg/kg | 10.14.19 21.26 | | 1 |
| Surrogate | Cas Number | % Recovery | | Units | Limits | Analysis Date | Flag |
| 4-Bromofluorobenzene | 460-00-4 | 121 | | % | 70-130 | 10.14.19 21.26 | |
| 1,4-Difluorobenzene | 540-36-3 | 105 | | % | 70-130 | 10.14.19 21.26 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

Sample Id: **SS06** Matrix: Soil Date Received: 10.14.19 13.56
 Lab Sample Id: 639886-006 Date Collected: 10.14.19 10.57 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 10.14.19 18.10 Basis: Wet Weight
 Seq Number: 3104255

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 25100 | 992 | mg/kg | 10.14.19 20.31 | | 100 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 10.14.19 12.10 Basis: Wet Weight
 Seq Number: 3104322

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 427 | 50.2 | mg/kg | 10.15.19 01.28 | | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 1410 | 50.2 | mg/kg | 10.15.19 01.28 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 102 | 50.2 | mg/kg | 10.15.19 01.28 | | 1 |
| Total GRO-DRO | PHC628 | 1840 | 50.2 | mg/kg | 10.15.19 01.28 | | 1 |
| Total TPH | PHC635 | 1940 | 50.2 | mg/kg | 10.15.19 01.28 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 96 | % | 70-135 | 10.15.19 01.28 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-135 | 10.15.19 01.28 | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SS06 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-006 | Date Collected: 10.14.19 10.57 | Sample Depth: 0.5 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 16.10 | Basis: Wet Weight |
| Seq Number: 3104315 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-----------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | 0.290 | 0.00495 | mg/kg | 10.14.19 21.45 | | 1 |
| Toluene | 108-88-3 | 17.5 | 0.990 | mg/kg | 10.15.19 10.30 | D | 200 |
| Ethylbenzene | 100-41-4 | 17.4 | 0.990 | mg/kg | 10.15.19 10.30 | D | 200 |
| m,p-Xylenes | 179601-23-1 | 61.5 | 1.98 | mg/kg | 10.15.19 10.30 | D | 200 |
| o-Xylene | 95-47-6 | 26.7 | 0.990 | mg/kg | 10.15.19 10.30 | D | 200 |
| Total Xylenes | 1330-20-7 | 88.2 | 0.990 | mg/kg | 10.15.19 10.30 | | 200 |
| Total BTEX | | 123 | 0.00495 | mg/kg | 10.15.19 10.30 | | 200 |
| | | | % | | | | |
| Surrogate | Cas Number | Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 89 | % | 70-130 | 10.14.19 21.45 | | |
| 4-Bromofluorobenzene | 460-00-4 | 470 | % | 70-130 | 10.14.19 21.45 | ** | |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--|--------------------------------|-------------------------------|
| Sample Id: SS07 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-007 | Date Collected: 10.14.19 10.59 | Sample Depth: 0.5 ft |
| Analytical Method: Chloride by EPA 300 | | Prep Method: E300P |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 18.10 | Basis: Wet Weight |
| Seq Number: 3104255 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 15800 | 496 | mg/kg | 10.14.19 20.37 | | 50 |

| | | |
|--------------------------------------|---------------------------|----------------------|
| Analytical Method: TPH by SW8015 Mod | | Prep Method: SW8015P |
| Tech: DTH | | % Moisture: |
| Analyst: DTH | Date Prep: 10.14.19 12.10 | Basis: Wet Weight |
| Seq Number: 3104322 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|-----|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | 1530 | 251 | mg/kg | 10.15.19 00.49 | | 5 |
| Diesel Range Organics (DRO) | C10C28DRO | 8930 | 251 | mg/kg | 10.15.19 00.49 | | 5 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | 794 | 251 | mg/kg | 10.15.19 00.49 | | 5 |
| Total GRO-DRO | PHC628 | 10500 | 251 | mg/kg | 10.15.19 00.49 | | 5 |
| Total TPH | PHC635 | 11300 | 251 | mg/kg | 10.15.19 00.49 | | 5 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 116 | % | 70-135 | 10.15.19 00.49 | |
| o-Terphenyl | 84-15-1 | 152 | % | 70-135 | 10.15.19 00.49 | ** |



Certificate of Analytical Results 639886

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SS07 | Matrix: Soil | Date Received: 10.14.19 13.56 |
| Lab Sample Id: 639886-007 | Date Collected: 10.14.19 10.59 | Sample Depth: 0.5 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 10.14.19 16.10 | Basis: Wet Weight |
| Seq Number: 3104315 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | 0.561 | 0.0198 | mg/kg | 10.14.19 22.05 | | 20 |
| Toluene | 108-88-3 | 14.8 | 0.198 | mg/kg | 10.15.19 10.49 | D | 200 |
| Ethylbenzene | 100-41-4 | 7.28 | 0.0198 | mg/kg | 10.14.19 22.05 | | 20 |
| m,p-Xylenes | 179601-23-1 | 35.0 | 0.395 | mg/kg | 10.15.19 10.49 | D | 200 |
| o-Xylene | 95-47-6 | 15.3 | 0.198 | mg/kg | 10.15.19 10.49 | D | 200 |
| Total Xylenes | 1330-20-7 | 50.3 | 0.198 | mg/kg | 10.15.19 10.49 | | 200 |
| Total BTEX | | 72.9 | 0.0198 | mg/kg | 10.15.19 10.49 | | 200 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 10.14.19 22.05 | | |
| 4-Bromofluorobenzene | 460-00-4 | 168 | % | 70-130 | 10.14.19 22.05 | ** | |



LT Environmental, Inc.
PLU 89 SWD Line

Analytical Method: Chloride by EPA 300

Seq Number: 3104255

MB Sample Id: 7688098-1-BLK

Matrix: Solid

LCS Sample Id: 7688098-1-BKS

Prep Method: E300P

Date Prep: 10.14.19

LCSD Sample Id: 7688098-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <10.0 | 300 | 299 | 100 | 302 | 101 | 90-110 | 1 | 20 | mg/kg | 10.14.19 18:27 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3104255

Parent Sample Id: 639802-006

Matrix: Soil

MS Sample Id: 639802-006 S

Prep Method: E300P

Date Prep: 10.14.19

MSD Sample Id: 639802-006 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 21.4 | 200 | 256 | 117 | 254 | 116 | 90-110 | 1 | 20 | mg/kg | 10.14.19 19:20 | X |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3104322

MB Sample Id: 7688113-1-BLK

Matrix: Solid

LCS Sample Id: 7688113-1-BKS

Prep Method: SW8015P

Date Prep: 10.14.19

LCSD Sample Id: 7688113-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 818 | 82 | 829 | 83 | 70-135 | 1 | 35 | mg/kg | 10.14.19 20:50 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 739 | 74 | 760 | 76 | 70-135 | 3 | 35 | mg/kg | 10.14.19 20:50 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 82 | | 104 | | 96 | | 70-135 | % | 10.14.19 20:50 |
| o-Terphenyl | 85 | | 93 | | 94 | | 70-135 | % | 10.14.19 20:50 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3104322

MB Sample Id: 7688113-1-BLK

Matrix: Solid

Prep Method: SW8015P

Date Prep: 10.14.19

| Parameter | MB Result | Units | Analysis Date | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 10.14.19 20:30 | |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



LT Environmental, Inc.
PLU 89 SWD Line

Analytical Method: TPH by SW8015 Mod

Seq Number: 3104322

Parent Sample Id: 639802-005

Matrix: Soil

MS Sample Id: 639802-005 S

Prep Method: SW8015P

Date Prep: 10.14.19

MSD Sample Id: 639802-005 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.2 | 1000 | 934 | 93 | 897 | 90 | 70-135 | 4 | 35 | mg/kg | 10.14.19 21:50 | |
| Diesel Range Organics (DRO) | <50.2 | 1000 | 828 | 83 | 813 | 81 | 70-135 | 2 | 35 | mg/kg | 10.14.19 21:50 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 102 | | 100 | | 70-135 | % | 10.14.19 21:50 |
| o-Terphenyl | 100 | | 98 | | 70-135 | % | 10.14.19 21:50 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3104315

MB Sample Id: 7688133-1-BLK

Matrix: Solid

LCS Sample Id: 7688133-1-BKS

Prep Method: SW5030B

Date Prep: 10.14.19

LCSD Sample Id: 7688133-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00100 | 0.100 | 0.0948 | 95 | 0.0980 | 98 | 70-130 | 3 | 35 | mg/kg | 10.14.19 18:26 | |
| Toluene | <0.00100 | 0.100 | 0.0936 | 94 | 0.0968 | 97 | 70-130 | 3 | 35 | mg/kg | 10.14.19 18:26 | |
| Ethylbenzene | <0.00100 | 0.100 | 0.0972 | 97 | 0.101 | 101 | 71-129 | 4 | 35 | mg/kg | 10.14.19 18:26 | |
| m,p-Xylenes | <0.00200 | 0.200 | 0.197 | 99 | 0.202 | 101 | 70-135 | 3 | 35 | mg/kg | 10.14.19 18:26 | |
| o-Xylene | <0.00100 | 0.100 | 0.0968 | 97 | 0.0992 | 99 | 71-133 | 2 | 35 | mg/kg | 10.14.19 18:26 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 99 | | 100 | | 101 | | 70-130 | % | 10.14.19 18:26 |
| 4-Bromofluorobenzene | 98 | | 103 | | 102 | | 70-130 | % | 10.14.19 18:26 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3104315

Parent Sample Id: 639886-001

Matrix: Soil

MS Sample Id: 639886-001 S

Prep Method: SW5030B

Date Prep: 10.14.19

MSD Sample Id: 639886-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.000994 | 0.0994 | 0.0965 | 97 | 0.0825 | 83 | 70-130 | 16 | 35 | mg/kg | 10.14.19 19:04 | |
| Toluene | <0.000994 | 0.0994 | 0.0934 | 94 | 0.0792 | 80 | 70-130 | 16 | 35 | mg/kg | 10.14.19 19:04 | |
| Ethylbenzene | <0.000994 | 0.0994 | 0.0955 | 96 | 0.0803 | 81 | 71-129 | 17 | 35 | mg/kg | 10.14.19 19:04 | |
| m,p-Xylenes | <0.00199 | 0.199 | 0.192 | 96 | 0.161 | 81 | 70-135 | 18 | 35 | mg/kg | 10.14.19 19:04 | |
| o-Xylene | <0.000994 | 0.0994 | 0.0969 | 97 | 0.0826 | 83 | 71-133 | 16 | 35 | mg/kg | 10.14.19 19:04 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 105 | | 104 | | 70-130 | % | 10.14.19 19:04 |
| 4-Bromofluorobenzene | 111 | | 110 | | 70-130 | % | 10.14.19 19:04 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Chain of Custody

Work Order No: 039886

Project Manager: Dan Moir
 Company Name: LT Environmental, Inc., Permian office
 Address: 3300 North A Street
 City, State ZIP: Midland, TX 79705
 Phone: (432) 236-3849
 Email: jmather@ltenv.com, dmoir@ltenv.com

Bill to: (if different) Kyle Litrell
 Company Name: XTO Energy
 Address:
 City, State ZIP:
 Program: UST/PST RP Rowfields RC Rfund
 State of Project:
 Reporting Level: Level II Level III PT/UST RP Level IV
 Deliverables: EDD ADAPT Other:

| SAMPLE RECEIPT | | | | ANALYSIS REQUEST | | | Work Order Notes | |
|-----------------------|---|---|--------------------|------------------|-------------------|----------------------|------------------|---|
| Temperature (°C): | Temp Blank: | Wet Ice: | Thermometer ID | TPH (EPA 8015) | BTEX (EPA 0-8021) | Chloride (EPA 300.0) | | |
| Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | T-NU-007 | | | | | |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor: | | | | | |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Total Containers: | | | | | |
| | | | 7 | | | | | |
| Sample Identification | | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | | |
| SS01 | S | | 10/14/2019 | 15:45 | 0.5' | 1 | X | X |
| SS02 | S | | 10/14/2019 | 15:49 | 0.5' | 1 | X | X |
| SS03 | S | | 10/14/2019 | 15:50 | 0.5' | 1 | X | X |
| SS04 | S | | 10/14/2019 | 15:52 | 0.5' | 1 | X | X |
| SS05 | S | | 10/14/2019 | 15:55 | 0.5' | 1 | X | X |
| SS06 | S | | 10/14/2019 | 15:57 | 0.5' | 1 | X | X |
| SS07 | S | | 10/14/2019 | 15:58 | 0.5' | 1 | X | X |

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time: 10/14/19 13:54 Relinquished by: (Signature) Received by: (Signature) Date/Time:



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 10/14/2019 01:56:00 PM

Work Order #: 639886

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist | Comments |
|---|----------|
| #1 *Temperature of cooler(s)? | 1.8 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | N/A |
| #5 Custody Seals intact on sample bottles? | N/A |
| #6*Custody Seals Signed and dated? | N/A |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | No |
| #18 Water VOC samples have zero headspace? | N/A |

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:  Date: 10/14/2019
Elizabeth McClellan

Checklist reviewed by:  Date: 10/15/2019
Jessica Kramer

Analytical Report 644194

for
LT Environmental, Inc.

Project Manager: Dan Moir

PLU 89 SWD Riser

012919246

25-NOV-19

Collected By: Client



**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



25-NOV-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **644194**
PLU 89 SWD Riser
Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 644194. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 644194 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| BH01 | S | 11-21-19 10:40 | 2 ft | 644194-001 |
| BH02 | S | 11-21-19 14:45 | 4 ft | 644194-003 |
| BH03 | S | 11-21-19 15:20 | 2 ft | 644194-004 |
| BH04 | S | 11-21-19 15:30 | 2 ft | 644194-005 |
| BH05 | S | 11-21-19 15:40 | 2 ft | 644194-006 |
| BH06 | S | 11-21-19 16:05 | 2 ft | 644194-007 |
| BH07 | S | 11-21-19 16:15 | 2 ft | 644194-008 |
| BH01A | S | 11-21-19 11:20 | 3 ft | Not Analyzed |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU 89 SWD Riser

Project ID: 012919246
Work Order Number(s): 644194

Report Date: 25-NOV-19
Date Received: 11/22/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3108512 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 644194-007.

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 644194

LT Environmental, Inc., Arvada, CO

Project Name: PLU 89 SWD Riser

Project Id: 012919246
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Fri Nov-22-19 09:12 am
Report Date: 25-NOV-19
Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 644194-001 | 644194-003 | 644194-004 | 644194-005 | 644194-006 | 644194-007 |
|----------------------------|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | <i>Field Id:</i> | BH01 | BH02 | BH03 | BH04 | BH05 | BH06 |
| | <i>Depth:</i> | 2- ft | 4- ft | 2- ft | 2- ft | 2- ft | 2- ft |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | <i>Sampled:</i> | Nov-21-19 10:40 | Nov-21-19 14:45 | Nov-21-19 15:20 | Nov-21-19 15:30 | Nov-21-19 15:40 | Nov-21-19 16:05 |
| BTEX by EPA 8021B | <i>Extracted:</i> | Nov-22-19 10:11 |
| | <i>Analyzed:</i> | Nov-22-19 17:22 | Nov-22-19 17:56 | Nov-22-19 18:14 | Nov-22-19 18:31 | Nov-22-19 18:49 | Nov-22-19 19:06 |
| | <i>Units/RL:</i> | mg/kg RL |
| | Benzene | <0.00198 0.00198 | <0.00199 0.00199 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00197 0.00197 | <0.00198 0.00198 |
| | Toluene | <0.00198 0.00198 | <0.00199 0.00199 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00197 0.00197 | <0.00198 0.00198 |
| | Ethylbenzene | <0.00198 0.00198 | <0.00199 0.00199 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00197 0.00197 | <0.00198 0.00198 |
| | m,p-Xylenes | <0.00397 0.00397 | <0.00398 0.00398 | <0.00398 0.00398 | <0.00397 0.00397 | <0.00394 0.00394 | <0.00395 0.00395 |
| | o-Xylene | <0.00198 0.00198 | <0.00199 0.00199 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00197 0.00197 | <0.00198 0.00198 |
| Total Xylenes | <0.00198 0.00198 | <0.00199 0.00199 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00197 0.00197 | <0.00198 0.00198 | |
| Total BTEX | <0.00198 0.00198 | <0.00199 0.00199 | <0.00199 0.00199 | <0.00198 0.00198 | <0.00197 0.00197 | <0.00198 0.00198 | |
| Chloride by EPA 300 | <i>Extracted:</i> | Nov-22-19 11:11 |
| | <i>Analyzed:</i> | Nov-22-19 16:57 | Nov-22-19 17:10 | Nov-22-19 17:30 | Nov-22-19 17:37 | Nov-22-19 17:43 | Nov-22-19 17:50 |
| | <i>Units/RL:</i> | mg/kg RL |
| Chloride | 7190 200 | 7510 201 | <10.1 10.1 | 3600 101 | 15.9 10.1 | <9.98 9.98 | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Nov-22-19 12:00 |
| | <i>Analyzed:</i> | Nov-22-19 12:25 | Nov-22-19 13:45 | Nov-22-19 14:05 | Nov-22-19 14:25 | Nov-22-19 14:45 | Nov-22-19 15:05 |
| | <i>Units/RL:</i> | mg/kg RL |
| | Gasoline Range Hydrocarbons (GRO) | <50.1 50.1 | <49.9 49.9 | <50.2 50.2 | <49.9 49.9 | <49.9 49.9 | <50.2 50.2 |
| | Diesel Range Organics (DRO) | <50.1 50.1 | <49.9 49.9 | <50.2 50.2 | <49.9 49.9 | <49.9 49.9 | <50.2 50.2 |
| | Motor Oil Range Hydrocarbons (MRO) | <50.1 50.1 | <49.9 49.9 | <50.2 50.2 | <49.9 49.9 | <49.9 49.9 | <50.2 50.2 |
| | Total GRO-DRO | <50.1 50.1 | <49.9 49.9 | <50.2 50.2 | <49.9 49.9 | <49.9 49.9 | <50.2 50.2 |
| | Total TPH | <50.1 50.1 | <49.9 49.9 | <50.2 50.2 | <49.9 49.9 | <49.9 49.9 | <50.2 50.2 |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.9%

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 644194

LT Environmental, Inc., Arvada, CO

Project Name: PLU 89 SWD Riser

Project Id: 012919246
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Fri Nov-22-19 09:12 am
Report Date: 25-NOV-19
Project Manager: Jessica Kramer

| | | | | | | |
|----------------------------|------------------------------------|------------------|--|--|--|--|
| Analysis Requested | Lab Id: | 644194-008 | | | | |
| | Field Id: | BH07 | | | | |
| | Depth: | 2- ft | | | | |
| | Matrix: | SOIL | | | | |
| | Sampled: | Nov-21-19 16:15 | | | | |
| BTEX by EPA 8021B | Extracted: | Nov-22-19 10:11 | | | | |
| | Analyzed: | Nov-22-19 19:23 | | | | |
| | Units/RL: | mg/kg RL | | | | |
| | Benzene | <0.00200 0.00200 | | | | |
| | Toluene | <0.00200 0.00200 | | | | |
| | Ethylbenzene | <0.00200 0.00200 | | | | |
| | m,p-Xylenes | <0.00399 0.00399 | | | | |
| | o-Xylene | <0.00200 0.00200 | | | | |
| Total Xylenes | <0.00200 0.00200 | | | | | |
| Total BTEX | <0.00200 0.00200 | | | | | |
| Chloride by EPA 300 | Extracted: | Nov-22-19 11:11 | | | | |
| | Analyzed: | Nov-22-19 17:56 | | | | |
| | Units/RL: | mg/kg RL | | | | |
| Chloride | <9.92 9.92 | | | | | |
| TPH by SW8015 Mod | Extracted: | Nov-22-19 12:00 | | | | |
| | Analyzed: | Nov-22-19 15:25 | | | | |
| | Units/RL: | mg/kg RL | | | | |
| | Gasoline Range Hydrocarbons (GRO) | <50.2 50.2 | | | | |
| | Diesel Range Organics (DRO) | <50.2 50.2 | | | | |
| | Motor Oil Range Hydrocarbons (MRO) | <50.2 50.2 | | | | |
| | Total GRO-DRO | <50.2 50.2 | | | | |
| Total TPH | <50.2 50.2 | | | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.0%

Jessica Kramer
Project Assistant



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

Sample Id: **BH01** Matrix: Soil Date Received: 11.22.19 09.12
 Lab Sample Id: 644194-001 Date Collected: 11.21.19 10.40 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 11.22.19 11.11 Basis: Wet Weight
 Seq Number: 3108482

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|-------------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 7190 | 200 | mg/kg | 11.22.19 16.57 | | 20 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 11.22.19 12.00 Basis: Wet Weight
 Seq Number: 3108478

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 11.22.19 12.25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 11.22.19 12.25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 11.22.19 12.25 | U | 1 |
| Total GRO-DRO | PHC628 | <50.1 | 50.1 | mg/kg | 11.22.19 12.25 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 11.22.19 12.25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 100 | % | 70-135 | 11.22.19 12.25 | |
| o-Terphenyl | 84-15-1 | 103 | % | 70-135 | 11.22.19 12.25 | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: BH01 | Matrix: Soil | Date Received: 11.22.19 09.12 |
| Lab Sample Id: 644194-001 | Date Collected: 11.21.19 10.40 | Sample Depth: 2 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 11.22.19 10.11 | Basis: Wet Weight |
| Seq Number: 3108512 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 11.22.19 17.22 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 11.22.19 17.22 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 11.22.19 17.22 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 11.22.19 17.22 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 11.22.19 17.22 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 11.22.19 17.22 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 11.22.19 17.22 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 11.22.19 17.22 | | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 11.22.19 17.22 | | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

Sample Id: **BH02** Matrix: Soil Date Received: 11.22.19 09.12
 Lab Sample Id: 644194-003 Date Collected: 11.21.19 14.45 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 11.22.19 11.11 Basis: Wet Weight
 Seq Number: 3108482

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 7510 | 201 | mg/kg | 11.22.19 17.10 | | 20 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 11.22.19 12.00 Basis: Wet Weight
 Seq Number: 3108478

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 11.22.19 13.45 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 11.22.19 13.45 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 11.22.19 13.45 | U | 1 |
| Total GRO-DRO | PHC628 | <49.9 | 49.9 | mg/kg | 11.22.19 13.45 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 11.22.19 13.45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 106 | % | 70-135 | 11.22.19 13.45 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-135 | 11.22.19 13.45 | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: BH02 | Matrix: Soil | Date Received: 11.22.19 09.12 |
| Lab Sample Id: 644194-003 | Date Collected: 11.21.19 14.45 | Sample Depth: 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 11.22.19 10.11 | Basis: Wet Weight |
| Seq Number: 3108512 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 11.22.19 17.56 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 11.22.19 17.56 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 11.22.19 17.56 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 11.22.19 17.56 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 11.22.19 17.56 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 11.22.19 17.56 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 11.22.19 17.56 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 11.22.19 17.56 | | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 11.22.19 17.56 | | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

Sample Id: **BH03** Matrix: Soil Date Received: 11.22.19 09.12
 Lab Sample Id: 644194-004 Date Collected: 11.21.19 15.20 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 11.22.19 11.11 Basis: Wet Weight
 Seq Number: 3108482

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <10.1 | 10.1 | mg/kg | 11.22.19 17.30 | U | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 11.22.19 12.00 Basis: Wet Weight
 Seq Number: 3108478

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 11.22.19 14.05 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 11.22.19 14.05 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 11.22.19 14.05 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 11.22.19 14.05 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 11.22.19 14.05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 92 | % | 70-135 | 11.22.19 14.05 | |
| o-Terphenyl | 84-15-1 | 96 | % | 70-135 | 11.22.19 14.05 | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: BH03 | Matrix: Soil | Date Received: 11.22.19 09.12 |
| Lab Sample Id: 644194-004 | Date Collected: 11.21.19 15.20 | Sample Depth: 2 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 11.22.19 10.11 | Basis: Wet Weight |
| Seq Number: 3108512 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00199 | 0.00199 | mg/kg | 11.22.19 18.14 | U | 1 |
| Toluene | 108-88-3 | <0.00199 | 0.00199 | mg/kg | 11.22.19 18.14 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00199 | 0.00199 | mg/kg | 11.22.19 18.14 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00398 | 0.00398 | mg/kg | 11.22.19 18.14 | U | 1 |
| o-Xylene | 95-47-6 | <0.00199 | 0.00199 | mg/kg | 11.22.19 18.14 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00199 | 0.00199 | mg/kg | 11.22.19 18.14 | U | 1 |
| Total BTEX | | <0.00199 | 0.00199 | mg/kg | 11.22.19 18.14 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 11.22.19 18.14 | | |
| 1,4-Difluorobenzene | 540-36-3 | 93 | % | 70-130 | 11.22.19 18.14 | | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

Sample Id: **BH04** Matrix: Soil Date Received: 11.22.19 09.12
 Lab Sample Id: 644194-005 Date Collected: 11.21.19 15.30 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 11.22.19 11.11 Basis: Wet Weight
 Seq Number: 3108482

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 3600 | 101 | mg/kg | 11.22.19 17.37 | | 10 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 11.22.19 12.00 Basis: Wet Weight
 Seq Number: 3108478

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 11.22.19 14.25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 11.22.19 14.25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 11.22.19 14.25 | U | 1 |
| Total GRO-DRO | PHC628 | <49.9 | 49.9 | mg/kg | 11.22.19 14.25 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 11.22.19 14.25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 94 | % | 70-135 | 11.22.19 14.25 | |
| o-Terphenyl | 84-15-1 | 98 | % | 70-135 | 11.22.19 14.25 | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: BH04 | Matrix: Soil | Date Received: 11.22.19 09.12 |
| Lab Sample Id: 644194-005 | Date Collected: 11.21.19 15.30 | Sample Depth: 2 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 11.22.19 10.11 | Basis: Wet Weight |
| Seq Number: 3108512 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 11.22.19 18.31 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 11.22.19 18.31 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 11.22.19 18.31 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 11.22.19 18.31 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 11.22.19 18.31 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 11.22.19 18.31 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 11.22.19 18.31 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 11.22.19 18.31 | | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | % | 70-130 | 11.22.19 18.31 | | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

Sample Id: **BH05** Matrix: Soil Date Received: 11.22.19 09.12
 Lab Sample Id: 644194-006 Date Collected: 11.21.19 15.40 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 11.22.19 11.11 Basis: Wet Weight
 Seq Number: 3108482

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 15.9 | 10.1 | mg/kg | 11.22.19 17.43 | | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 11.22.19 12.00 Basis: Wet Weight
 Seq Number: 3108478

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 11.22.19 14.45 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.9 | 49.9 | mg/kg | 11.22.19 14.45 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 11.22.19 14.45 | U | 1 |
| Total GRO-DRO | PHC628 | <49.9 | 49.9 | mg/kg | 11.22.19 14.45 | U | 1 |
| Total TPH | PHC635 | <49.9 | 49.9 | mg/kg | 11.22.19 14.45 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 109 | % | 70-135 | 11.22.19 14.45 | |
| o-Terphenyl | 84-15-1 | 115 | % | 70-135 | 11.22.19 14.45 | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: BH05 | Matrix: Soil | Date Received: 11.22.19 09.12 |
| Lab Sample Id: 644194-006 | Date Collected: 11.21.19 15.40 | Sample Depth: 2 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 11.22.19 10.11 | Basis: Wet Weight |
| Seq Number: 3108512 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00197 | 0.00197 | mg/kg | 11.22.19 18.49 | U | 1 |
| Toluene | 108-88-3 | <0.00197 | 0.00197 | mg/kg | 11.22.19 18.49 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00197 | 0.00197 | mg/kg | 11.22.19 18.49 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00394 | 0.00394 | mg/kg | 11.22.19 18.49 | U | 1 |
| o-Xylene | 95-47-6 | <0.00197 | 0.00197 | mg/kg | 11.22.19 18.49 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00197 | 0.00197 | mg/kg | 11.22.19 18.49 | U | 1 |
| Total BTEX | | <0.00197 | 0.00197 | mg/kg | 11.22.19 18.49 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 97 | % | 70-130 | 11.22.19 18.49 | | |
| 4-Bromofluorobenzene | 460-00-4 | 127 | % | 70-130 | 11.22.19 18.49 | | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

Sample Id: **BH06** Matrix: Soil Date Received: 11.22.19 09.12
 Lab Sample Id: 644194-007 Date Collected: 11.21.19 16.05 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 11.22.19 11.11 Basis: Wet Weight
 Seq Number: 3108482

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <9.98 | 9.98 | mg/kg | 11.23.19 11.39 | U | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 11.22.19 12.00 Basis: Wet Weight
 Seq Number: 3108478

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 11.22.19 15.05 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 11.22.19 15.05 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 11.22.19 15.05 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 11.22.19 15.05 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 11.22.19 15.05 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 99 | % | 70-135 | 11.22.19 15.05 | |
| o-Terphenyl | 84-15-1 | 101 | % | 70-135 | 11.22.19 15.05 | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: BH06 | Matrix: Soil | Date Received: 11.22.19 09.12 |
| Lab Sample Id: 644194-007 | Date Collected: 11.21.19 16.05 | Sample Depth: 2 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 11.22.19 10.11 | Basis: Wet Weight |
| Seq Number: 3108512 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|----------|-------------------|--------------|----------------|----------------------|-------------|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 11.22.19 19.06 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 11.22.19 19.06 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 11.22.19 19.06 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00395 | 0.00395 | mg/kg | 11.22.19 19.06 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 11.22.19 19.06 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 11.22.19 19.06 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 11.22.19 19.06 | U | 1 |
| | | | % Recovery | Units | Limits | Analysis Date | Flag |
| Surrogate | Cas Number | | | | | | |
| 4-Bromofluorobenzene | 460-00-4 | | 135 | % | 70-130 | 11.22.19 19.06 | ** |
| 1,4-Difluorobenzene | 540-36-3 | | 88 | % | 70-130 | 11.22.19 19.06 | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

Sample Id: **BH07** Matrix: Soil Date Received: 11.22.19 09.12
 Lab Sample Id: 644194-008 Date Collected: 11.21.19 16.15 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 11.22.19 11.11 Basis: Wet Weight
 Seq Number: 3108482

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | <9.92 | 9.92 | mg/kg | 11.22.19 17.56 | U | 1 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 11.22.19 12.00 Basis: Wet Weight
 Seq Number: 3108478

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 11.22.19 15.25 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 11.22.19 15.25 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 11.22.19 15.25 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 11.22.19 15.25 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 11.22.19 15.25 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 84 | % | 70-135 | 11.22.19 15.25 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-135 | 11.22.19 15.25 | |



Certificate of Analytical Results 644194

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Riser

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: BH07 | Matrix: Soil | Date Received: 11.22.19 09.12 |
| Lab Sample Id: 644194-008 | Date Collected: 11.21.19 16.15 | Sample Depth: 2 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 11.22.19 10.11 | Basis: Wet Weight |
| Seq Number: 3108512 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 11.22.19 19.23 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 11.22.19 19.23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 11.22.19 19.23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 11.22.19 19.23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 11.22.19 19.23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 11.22.19 19.23 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 11.22.19 19.23 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 11.22.19 19.23 | | |
| 1,4-Difluorobenzene | 540-36-3 | 95 | % | 70-130 | 11.22.19 19.23 | | |



LT Environmental, Inc.
 PLU 89 SWD Riser

Analytical Method: Chloride by EPA 300

Seq Number: 3108482 Matrix: Solid Prep Method: E300P
 Date Prep: 11.22.19
 MB Sample Id: 7691019-1-BLK LCS Sample Id: 7691019-1-BKS LCSD Sample Id: 7691019-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <10.0 | 250 | 258 | 103 | 265 | 106 | 90-110 | 3 | 20 | mg/kg | 11.22.19 14:59 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3108482 Matrix: Soil Prep Method: E300P
 Date Prep: 11.22.19
 Parent Sample Id: 644187-010 MS Sample Id: 644187-010 S MSD Sample Id: 644187-010 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 2320 | 200 | 2510 | 95 | 2510 | 95 | 90-110 | 0 | 20 | mg/kg | 11.22.19 15:17 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3108482 Matrix: Soil Prep Method: E300P
 Date Prep: 11.22.19
 Parent Sample Id: 644191-010 MS Sample Id: 644191-010 S MSD Sample Id: 644191-010 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 327 | 197 | 541 | 109 | 528 | 103 | 90-110 | 2 | 20 | mg/kg | 11.22.19 16:44 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3108478 Matrix: Solid Prep Method: SW8015P
 Date Prep: 11.22.19
 MB Sample Id: 7691010-1-BLK LCS Sample Id: 7691010-1-BKS LCSD Sample Id: 7691010-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 894 | 89 | 861 | 86 | 70-135 | 4 | 35 | mg/kg | 11.22.19 11:08 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1040 | 104 | 986 | 99 | 70-135 | 5 | 35 | mg/kg | 11.22.19 11:08 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 98 | | 111 | | 123 | | 70-135 | % | 11.22.19 11:08 |
| o-Terphenyl | 102 | | 109 | | 106 | | 70-135 | % | 11.22.19 11:08 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3108478 Matrix: Solid Prep Method: SW8015P
 Date Prep: 11.22.19
 MB Sample Id: 7691010-1-BLK

| Parameter | MB Result | Units | Analysis Date | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 11.22.19 10:48 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
 Relative Percent Difference RPD = 200* |(C-E) / (C+E)|
 LCS/LCSD Recovery [D] = 100 * (C) / [B]
 Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)
 LCS = Laboratory Control Sample MS = Matrix Spike
 A = Parent Result B = Spike Added
 C = MS/LCS Result D = MSD/LCSD % Rec
 E = MSD/LCSD Result



LT Environmental, Inc.

PLU 89 SWD Riser

Analytical Method: TPH by SW8015 Mod

Seq Number: 3108478

Parent Sample Id: 644194-001

Matrix: Soil

MS Sample Id: 644194-001 S

Prep Method: SW8015P

Date Prep: 11.22.19

MSD Sample Id: 644194-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD | Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----|-------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <13.9 | 999 | 1010 | 101 | 910 | 91 | 70-135 | 10 | 35 | | mg/kg | 11.22.19 12:45 | |
| Diesel Range Organics (DRO) | 35.6 | 999 | 1160 | 113 | 1040 | 100 | 70-135 | 11 | 35 | | mg/kg | 11.22.19 12:45 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 118 | | 127 | | 70-135 | % | 11.22.19 12:45 |
| o-Terphenyl | 123 | | 108 | | 70-135 | % | 11.22.19 12:45 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3108512

MB Sample Id: 7691039-1-BLK

Matrix: Solid

LCS Sample Id: 7691039-1-BKS

Prep Method: SW5030B

Date Prep: 11.22.19

LCSD Sample Id: 7691039-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD | Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----|-------|-------|----------------|------|
| Benzene | <0.00200 | 0.100 | 0.0924 | 92 | 0.0935 | 94 | 70-130 | 1 | 35 | | mg/kg | 11.22.19 11:35 | |
| Toluene | <0.00200 | 0.100 | 0.0870 | 87 | 0.0876 | 88 | 70-130 | 1 | 35 | | mg/kg | 11.22.19 11:35 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0945 | 95 | 0.0957 | 96 | 71-129 | 1 | 35 | | mg/kg | 11.22.19 11:35 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.188 | 94 | 0.190 | 95 | 70-135 | 1 | 35 | | mg/kg | 11.22.19 11:35 | |
| o-Xylene | <0.00200 | 0.100 | 0.0926 | 93 | 0.0938 | 94 | 71-133 | 1 | 35 | | mg/kg | 11.22.19 11:35 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 97 | | 94 | | 95 | | 70-130 | % | 11.22.19 11:35 |
| 4-Bromofluorobenzene | 113 | | 106 | | 108 | | 70-130 | % | 11.22.19 11:35 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3108512

Parent Sample Id: 644184-001

Matrix: Soil

MS Sample Id: 644184-001 S

Prep Method: SW5030B

Date Prep: 11.22.19

MSD Sample Id: 644184-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD | Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----|-------|-------|----------------|------|
| Benzene | <0.00198 | 0.0988 | 0.0957 | 97 | 0.102 | 103 | 70-130 | 6 | 35 | | mg/kg | 11.22.19 12:09 | |
| Toluene | 0.000888 | 0.0988 | 0.0884 | 89 | 0.0959 | 96 | 70-130 | 8 | 35 | | mg/kg | 11.22.19 12:09 | |
| Ethylbenzene | <0.00198 | 0.0988 | 0.0949 | 96 | 0.103 | 104 | 71-129 | 8 | 35 | | mg/kg | 11.22.19 12:09 | |
| m,p-Xylenes | <0.000988 | 0.198 | 0.187 | 94 | 0.205 | 104 | 70-135 | 9 | 35 | | mg/kg | 11.22.19 12:09 | |
| o-Xylene | <0.00198 | 0.0988 | 0.0922 | 93 | 0.101 | 102 | 71-133 | 9 | 35 | | mg/kg | 11.22.19 12:09 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 95 | | 98 | | 70-130 | % | 11.22.19 12:09 |
| 4-Bromofluorobenzene | 106 | | 117 | | 70-130 | % | 11.22.19 12:09 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8900 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: 1044194

www.xenco.com Page 1 of 1

Project Manager: Dan Moir
Company Name: LT Environmental, Inc., Permian office
Address: 3300 North A Street
City, State ZIP: Midland, Tx 79705
Phone: (432) 236-3849
Bill to: (if different): Kyle Litrell
Company Name: XTO Energy
Address:
City, State ZIP:
Project Name: PLU 09 BMD Kiser
Project Number: 012919246
P.O. Number:
Sampler's Name: Elizabeth Naka
Turn Around: Routine
Rush: 24 hours
Due Date:
Email: enaka@ltenv.com, dmoir@ltenv.com

Work Order Comments
Program: UST/PST RP Rowfields RC Superfund
State of Project:
Reporting Level: II level III BT/UST RP level IV
Deliverables: EDD ADAPT Other:

SAMPLE RECEIPT
Temperature (°C): 1.4 **Temp Blank:** Yes No **Wet Ice:** Yes No
Received Intact: Yes No **Thermometer ID:** T-NM-007
Cooler Custody Seals: Yes No **Correction Factor:** -0.2
Sample Custody Seals: Yes No **Total Containers:** 8

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | | | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|----------------------|-------------------|----------------------|-----------------|
| | | | | | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) | |
| BH01 | S | 11/21/19 | 1046 | 2' | X | X | X | discr hr |
| BH01A | | | | | | | | hold |
| BH02 | | | 1120 | 3' | | | | discr hr |
| BH03 | | | 1445 | 4' | | | | |
| BH04 | | | 1520 | 2' | | | | |
| BH05 | | | 1530 | | | | | |
| BH06 | | | 1540 | | | | | |
| BH06 | | | 1605 | | | | | |
| BH07 | | | 1615 | | | | | |

Total 200.7 / 6010 200.8 / 6020: BRCRA 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: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature) Elizabeth Naka **Received by: (Signature)** [Signature]
Date/Time 11/21/19 9:05 **Relinquished by: (Signature)** [Signature] **Received by: (Signature)** [Signature]
Date/Time 11/21/19 9:12



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 11/22/2019 09:12:00 AM

Work Order #: 644194

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist | Comments |
|---|----------|
| #1 *Temperature of cooler(s)? | 1.4 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes |
| #5 Custody Seals intact on sample bottles? | Yes |
| #6*Custody Seals Signed and dated? | Yes |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | No |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: 
Elizabeth McClellan

Date: 11/22/2019

Checklist reviewed by: 
Jessica Kramer

Date: 11/23/2019

Analytical Report 644772

for
LT Environmental, Inc.

Project Manager: Dan Moir

PLU 89 SWD Line

012919246

03-DEC-19

Collected By: Client



**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



03-DEC-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **644772**
PLU 89 SWD Line
Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 644772. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 644772 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer
Project Assistant

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 644772

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| BH08 | S | 12-02-19 11:35 | 6 ft | 644772-001 |
| BH08A | S | 12-02-19 11:50 | 7 ft | 644772-002 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU 89 SWD Line

Project ID: 012919246
Work Order Number(s): 644772

Report Date: 03-DEC-19
Date Received: 12/02/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3109146 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 644679-001 S.

Batch: LBA-3109160 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3109171 Chloride by EPA 300

Lab Sample ID 644772-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 644772-001, -002.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analysis Summary 644772

LT Environmental, Inc., Arvada, CO

Project Name: PLU 89 SWD Line

Project Id: 012919246
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Mon Dec-02-19 03:19 pm
Report Date: 03-DEC-19
Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 644772-001 | 644772-002 | | | | |
|------------------------------------|-------------------|-----------------|-----------------|--|--|--|--|
| | <i>Field Id:</i> | BH08 | BH08A | | | | |
| | <i>Depth:</i> | 6- ft | 7- ft | | | | |
| | <i>Matrix:</i> | SOIL | SOIL | | | | |
| | <i>Sampled:</i> | Dec-02-19 11:35 | Dec-02-19 11:50 | | | | |
| BTEX by EPA 8021B | <i>Extracted:</i> | Dec-02-19 16:00 | Dec-02-19 16:00 | | | | |
| | <i>Analyzed:</i> | Dec-03-19 05:09 | Dec-03-19 05:28 | | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | | | | |
| Benzene | | <0.0200 0.0200 | <0.0196 0.0196 | | | | |
| Toluene | | <0.0200 0.0200 | <0.0196 0.0196 | | | | |
| Ethylbenzene | | <0.0200 0.0200 | 0.0434 0.0196 | | | | |
| m,p-Xylenes | | 0.114 0.0400 | 0.344 0.0392 | | | | |
| o-Xylene | | 0.0489 0.0200 | 0.161 0.0196 | | | | |
| Total Xylenes | | 0.163 0.0200 | 0.505 0.0196 | | | | |
| Total BTEX | | 0.163 0.0200 | 0.548 0.0196 | | | | |
| Chloride by EPA 300 | <i>Extracted:</i> | Dec-02-19 16:00 | Dec-02-19 16:00 | | | | |
| | <i>Analyzed:</i> | Dec-02-19 17:32 | Dec-02-19 17:53 | | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | | | | |
| Chloride | | 1440 D 50.0 | 8970 D 499 | | | | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Dec-02-19 16:00 | Dec-02-19 16:00 | | | | |
| | <i>Analyzed:</i> | Dec-02-19 21:52 | Dec-02-19 21:52 | | | | |
| | <i>Units/RL:</i> | mg/kg RL | mg/kg RL | | | | |
| Gasoline Range Hydrocarbons (GRO) | | <50.2 50.2 | <49.9 49.9 | | | | |
| Diesel Range Organics (DRO) | | 244 50.2 | 459 49.9 | | | | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.2 50.2 | <49.9 49.9 | | | | |
| Total GRO-DRO | | 244 50.2 | 459 49.9 | | | | |
| Total TPH | | 244 50.2 | 459 49.9 | | | | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant



Certificate of Analytical Results 644772

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--|--------------------------------|-------------------------------|
| Sample Id: BH08 | Matrix: Soil | Date Received: 12.02.19 15.19 |
| Lab Sample Id: 644772-001 | Date Collected: 12.02.19 11.35 | Sample Depth: 6 ft |
| Analytical Method: Chloride by EPA 300 | | Prep Method: E300P |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.02.19 16.00 | Basis: Wet Weight |
| Seq Number: 3109171 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 1440 | 50.0 | mg/kg | 12.03.19 10.59 | D | 50 |

| | | |
|--------------------------------------|---------------------------|----------------------|
| Analytical Method: TPH by SW8015 Mod | | Prep Method: SW8015P |
| Tech: DTH | | % Moisture: |
| Analyst: DTH | Date Prep: 12.02.19 16.00 | Basis: Wet Weight |
| Seq Number: 3109146 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 12.02.19 21.52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 244 | 50.2 | mg/kg | 12.02.19 21.52 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 12.02.19 21.52 | U | 1 |
| Total GRO-DRO | PHC628 | 244 | 50.2 | mg/kg | 12.02.19 21.52 | | 1 |
| Total TPH | PHC635 | 244 | 50.2 | mg/kg | 12.02.19 21.52 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-135 | 12.02.19 21.52 | |
| o-Terphenyl | 84-15-1 | 120 | % | 70-135 | 12.02.19 21.52 | |



Certificate of Analytical Results 644772

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: BH08 | Matrix: Soil | Date Received: 12.02.19 15.19 |
| Lab Sample Id: 644772-001 | Date Collected: 12.02.19 11.35 | Sample Depth: 6 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.02.19 16.00 | Basis: Wet Weight |
| Seq Number: 3109160 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.0200 | 0.0200 | mg/kg | 12.03.19 05.09 | U | 1 |
| Toluene | 108-88-3 | <0.0200 | 0.0200 | mg/kg | 12.03.19 05.09 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.0200 | 0.0200 | mg/kg | 12.03.19 05.09 | U | 1 |
| m,p-Xylenes | 179601-23-1 | 0.114 | 0.0400 | mg/kg | 12.03.19 05.09 | | 1 |
| o-Xylene | 95-47-6 | 0.0489 | 0.0200 | mg/kg | 12.03.19 05.09 | | 1 |
| Total Xylenes | 1330-20-7 | 0.163 | 0.0200 | mg/kg | 12.03.19 05.09 | | 1 |
| Total BTEX | | 0.163 | 0.0200 | mg/kg | 12.03.19 05.09 | | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 12.03.19 05.09 | | |
| 4-Bromofluorobenzene | 460-00-4 | 115 | % | 70-130 | 12.03.19 05.09 | | |



Certificate of Analytical Results 644772

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

Sample Id: **BH08A** Matrix: Soil Date Received: 12.02.19 15.19
 Lab Sample Id: 644772-002 Date Collected: 12.02.19 11.50 Sample Depth: 7 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.02.19 16.00 Basis: Wet Weight
 Seq Number: 3109171

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|-------------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 8970 | 499 | mg/kg | 12.03.19 11.18 | D | 50 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.02.19 16.00 Basis: Wet Weight
 Seq Number: 3109146

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|------------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.9 | 49.9 | mg/kg | 12.02.19 21.52 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | 459 | 49.9 | mg/kg | 12.02.19 21.52 | | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.9 | 49.9 | mg/kg | 12.02.19 21.52 | U | 1 |
| Total GRO-DRO | PHC628 | 459 | 49.9 | mg/kg | 12.02.19 21.52 | | 1 |
| Total TPH | PHC635 | 459 | 49.9 | mg/kg | 12.02.19 21.52 | | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 104 | % | 70-135 | 12.02.19 21.52 | |
| o-Terphenyl | 84-15-1 | 115 | % | 70-135 | 12.02.19 21.52 | |



Certificate of Analytical Results 644772

LT Environmental, Inc., Arvada, CO

PLU 89 SWD Line

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: BH08A | Matrix: Soil | Date Received: 12.02.19 15.19 |
| Lab Sample Id: 644772-002 | Date Collected: 12.02.19 11.50 | Sample Depth: 7 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.02.19 16.00 | Basis: Wet Weight |
| Seq Number: 3109160 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.0196 | 0.0196 | mg/kg | 12.03.19 05.28 | U | 1 |
| Toluene | 108-88-3 | <0.0196 | 0.0196 | mg/kg | 12.03.19 05.28 | U | 1 |
| Ethylbenzene | 100-41-4 | 0.0434 | 0.0196 | mg/kg | 12.03.19 05.28 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.344 | 0.0392 | mg/kg | 12.03.19 05.28 | | 1 |
| o-Xylene | 95-47-6 | 0.161 | 0.0196 | mg/kg | 12.03.19 05.28 | | 1 |
| Total Xylenes | 1330-20-7 | 0.505 | 0.0196 | mg/kg | 12.03.19 05.28 | | 1 |
| Total BTEX | | 0.548 | 0.0196 | mg/kg | 12.03.19 05.28 | | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 114 | % | 70-130 | 12.03.19 05.28 | | |
| 1,4-Difluorobenzene | 540-36-3 | 101 | % | 70-130 | 12.03.19 05.28 | | |



LT Environmental, Inc.
PLU 89 SWD Line

Analytical Method: Chloride by EPA 300

Seq Number: 3109171 Matrix: Solid Prep Method: E300P
 MB Sample Id: 7691461-1-BLK LCS Sample Id: 7691461-1-BKS Date Prep: 12.02.19
 LCSD Sample Id: 7691461-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <10.0 | 250 | 262 | 105 | 264 | 106 | 90-110 | 1 | 20 | mg/kg | 12.02.19 15:40 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3109171 Matrix: Soil Prep Method: E300P
 Parent Sample Id: 644679-001 MS Sample Id: 644679-001 S Date Prep: 12.02.19
 MSD Sample Id: 644679-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | <10.1 | 201 | 220 | 109 | 219 | 108 | 90-110 | 0 | 20 | mg/kg | 12.02.19 15:58 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3109171 Matrix: Soil Prep Method: E300P
 Parent Sample Id: 644772-001 MS Sample Id: 644772-001 S Date Prep: 12.02.19
 MSD Sample Id: 644772-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 1440 | 247 | 14600 | 5328 | 14600 | 5243 | 90-110 | 0 | 20 | mg/kg | 12.03.19 11:05 | X |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3109146 Matrix: Solid Prep Method: SW8015P
 MB Sample Id: 7691483-1-BLK LCS Sample Id: 7691483-1-BKS Date Prep: 12.02.19
 LCSD Sample Id: 7691483-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 879 | 88 | 976 | 98 | 70-135 | 10 | 35 | mg/kg | 12.02.19 19:14 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1070 | 107 | 1140 | 114 | 70-135 | 6 | 35 | mg/kg | 12.02.19 19:14 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 118 | | 120 | | 132 | | 70-135 | % | 12.02.19 19:14 |
| o-Terphenyl | 120 | | 122 | | 131 | | 70-135 | % | 12.02.19 19:14 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3109146 Matrix: Solid Prep Method: SW8015P
 MB Sample Id: 7691483-1-BLK Date Prep: 12.02.19

| Parameter | MB Result | Units | Analysis Date | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 12.02.19 19:14 | |

MS/MSD Percent Recovery [D] = 100*(C-A) / B
 Relative Percent Difference RPD = 200* |(C-E) / (C+E)|
 LCS/LCSD Recovery [D] = 100 * (C) / [B]
 Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)
 LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result
 MS = Matrix Spike
 B = Spike Added
 D = MSD/LCSD % Rec



LT Environmental, Inc.
PLU 89 SWD Line

Analytical Method: TPH by SW8015 Mod

Seq Number: 3109146
Parent Sample Id: 644679-001

Matrix: Soil
MS Sample Id: 644679-001 S

Prep Method: SW8015P
Date Prep: 12.02.19
MSD Sample Id: 644679-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 983 | 98 | 898 | 89 | 70-135 | 9 | 35 | mg/kg | 12.03.19 09:09 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 1250 | 125 | 1100 | 109 | 70-135 | 13 | 35 | mg/kg | 12.03.19 09:09 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 135 | | 119 | | 70-135 | % | 12.03.19 09:09 |
| o-Terphenyl | 136 | ** | 125 | | 70-135 | % | 12.03.19 09:09 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3109160
MB Sample Id: 7691464-1-BLK

Matrix: Solid
LCS Sample Id: 7691464-1-BKS

Prep Method: SW5030B
Date Prep: 12.02.19
LCSD Sample Id: 7691464-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.100 | 0.0856 | 86 | 0.0885 | 89 | 70-130 | 3 | 35 | mg/kg | 12.02.19 21:17 | |
| Toluene | <0.00200 | 0.100 | 0.0854 | 85 | 0.0908 | 91 | 70-130 | 6 | 35 | mg/kg | 12.02.19 21:17 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0839 | 84 | 0.0901 | 90 | 71-129 | 7 | 35 | mg/kg | 12.02.19 21:17 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.177 | 89 | 0.191 | 96 | 70-135 | 8 | 35 | mg/kg | 12.02.19 21:17 | |
| o-Xylene | <0.00200 | 0.100 | 0.0900 | 90 | 0.0977 | 98 | 71-133 | 8 | 35 | mg/kg | 12.02.19 21:17 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 99 | | 102 | | 101 | | 70-130 | % | 12.02.19 21:17 |
| 4-Bromofluorobenzene | 108 | | 114 | | 114 | | 70-130 | % | 12.02.19 21:17 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3109160
Parent Sample Id: 644679-001

Matrix: Soil
MS Sample Id: 644679-001 S

Prep Method: SW5030B
Date Prep: 12.02.19
MSD Sample Id: 644679-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00202 | 0.101 | 0.0836 | 83 | 0.0744 | 74 | 70-130 | 12 | 35 | mg/kg | 12.02.19 22:59 | |
| Toluene | <0.00202 | 0.101 | 0.0847 | 84 | 0.0780 | 78 | 70-130 | 8 | 35 | mg/kg | 12.02.19 22:59 | |
| Ethylbenzene | <0.00202 | 0.101 | 0.0843 | 83 | 0.0776 | 78 | 71-129 | 8 | 35 | mg/kg | 12.02.19 22:59 | |
| m,p-Xylenes | <0.000760 | 0.202 | 0.178 | 88 | 0.165 | 82 | 70-135 | 8 | 35 | mg/kg | 12.02.19 22:59 | |
| o-Xylene | <0.00202 | 0.101 | 0.0897 | 89 | 0.0853 | 85 | 71-133 | 5 | 35 | mg/kg | 12.02.19 22:59 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 100 | | 98 | | 70-130 | % | 12.02.19 22:59 |
| 4-Bromofluorobenzene | 111 | | 119 | | 70-130 | % | 12.02.19 22:59 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12/02/2019 03:19:00 PM

Work Order #: 644772

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist | Comments |
|---|----------|
| #1 *Temperature of cooler(s)? | .8 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes |
| #5 Custody Seals intact on sample bottles? | Yes |
| #6*Custody Seals Signed and dated? | Yes |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | No |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: 
Elizabeth McClellan

Date: 12/02/2019

Checklist reviewed by: 
Jessica Kramer

Date: 12/03/2019

Analytical Report 645890

for
LT Environmental, Inc.

Project Manager: Dan Moir

PLU 89

012919246

12-DEC-19

Collected By: Client



**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



12-DEC-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **645890**
PLU 89
Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645890. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645890 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, slightly slanted style.

Jessica Kramer
Project Assistant

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 645890

LT Environmental, Inc., Arvada, CO

PLU 89

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| FS01 | S | 12-10-19 12:29 | 4 ft | 645890-001 |
| FS02 | S | 12-10-19 13:23 | 4 ft | 645890-002 |
| FS03 | S | 12-10-19 14:09 | 4 ft | 645890-003 |
| SW01 | S | 12-10-19 14:20 | 0 - 4 ft | 645890-004 |
| SW02 | S | 12-10-19 14:21 | 0 - 4 ft | 645890-005 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU 89

Project ID: 012919246
Work Order Number(s): 645890

Report Date: 12-DEC-19
Date Received: 12/11/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3110184 Chloride by EPA 300

Lab Sample ID 645890-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 645890-001, -002, -003, -004, -005.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3110217 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analysis Summary 645890

LT Environmental, Inc., Arvada, CO

Project Name: PLU 89

Project Id: 012919246
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Wed Dec-11-19 12:20 pm
Report Date: 12-DEC-19
Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 645890-001 | 645890-002 | 645890-003 | 645890-004 | 645890-005 | |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|--|
| | <i>Field Id:</i> | FS01 | FS02 | FS03 | SW01 | SW02 | |
| | <i>Depth:</i> | 4- ft | 4- ft | 4- ft | 0-4 ft | 0-4 ft | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | |
| | <i>Sampled:</i> | Dec-10-19 12:29 | Dec-10-19 13:23 | Dec-10-19 14:09 | Dec-10-19 14:20 | Dec-10-19 14:21 | |
| BTEX by EPA 8021B | <i>Extracted:</i> | Dec-11-19 13:00 | |
| | <i>Analyzed:</i> | Dec-11-19 16:28 | Dec-11-19 22:19 | Dec-11-19 17:06 | Dec-11-19 17:25 | Dec-11-19 17:44 | |
| | <i>Units/RL:</i> | mg/kg RL | |
| Benzene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00200 0.00200 | |
| Toluene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00200 0.00200 | |
| Ethylbenzene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00200 0.00200 | <0.00202 0.00202 | <0.00200 0.00200 | |
| m,p-Xylenes | | <0.00401 0.00401 | 0.00524 0.00399 | <0.00401 0.00401 | 0.00585 0.00403 | 0.00426 0.00401 | |
| o-Xylene | | <0.00200 0.00200 | 0.00329 0.00200 | <0.00200 0.00200 | 0.00458 0.00202 | 0.00301 0.00200 | |
| Total Xylenes | | <0.00200 0.00200 | 0.00853 0.00200 | <0.00200 0.00200 | 0.0104 0.00202 | 0.00727 0.00200 | |
| Total BTEX | | <0.00200 0.00200 | 0.00853 0.00200 | <0.00200 0.00200 | 0.0104 0.00202 | 0.00727 0.00200 | |
| Chloride by EPA 300 | <i>Extracted:</i> | Dec-11-19 13:54 | |
| | <i>Analyzed:</i> | Dec-11-19 15:38 | Dec-11-19 15:56 | Dec-11-19 16:01 | Dec-11-19 16:07 | Dec-11-19 16:36 | |
| | <i>Units/RL:</i> | mg/kg RL | |
| Chloride | | 9000 100 | 9390 100 | 7090 49.9 | 4940 49.6 | 4700 49.5 | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Dec-11-19 16:40 | |
| | <i>Analyzed:</i> | Dec-11-19 17:41 | Dec-11-19 18:01 | Dec-11-19 18:21 | Dec-11-19 18:21 | Dec-11-19 18:41 | |
| | <i>Units/RL:</i> | mg/kg RL | |
| Gasoline Range Hydrocarbons (GRO) | | <50.3 50.3 | <50.2 50.2 | <50.1 50.1 | <50.1 50.1 | <49.8 49.8 | |
| Diesel Range Organics (DRO) | | <50.3 50.3 | <50.2 50.2 | <50.1 50.1 | <50.1 50.1 | <49.8 49.8 | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.3 50.3 | <50.2 50.2 | <50.1 50.1 | <50.1 50.1 | <49.8 49.8 | |
| Total GRO-DRO | | <50.3 50.3 | <50.2 50.2 | <50.1 50.1 | <50.1 50.1 | <49.8 49.8 | |
| Total TPH | | <50.3 50.3 | <50.2 50.2 | <50.1 50.1 | <50.1 50.1 | <49.8 49.8 | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--|--------------------------------|-------------------------------|
| Sample Id: FS01 | Matrix: Soil | Date Received: 12.11.19 12.20 |
| Lab Sample Id: 645890-001 | Date Collected: 12.10.19 12.29 | Sample Depth: 4 ft |
| Analytical Method: Chloride by EPA 300 | | Prep Method: E300P |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 13.54 | Basis: Wet Weight |
| Seq Number: 3110184 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 9000 | 100 | mg/kg | 12.11.19 15.38 | | 10 |

| | | |
|--------------------------------------|---------------------------|----------------------|
| Analytical Method: TPH by SW8015 Mod | | Prep Method: SW8015P |
| Tech: DTH | | % Moisture: |
| Analyst: DTH | Date Prep: 12.11.19 16.40 | Basis: Wet Weight |
| Seq Number: 3110222 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | mg/kg | 12.11.19 17.41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.3 | 50.3 | mg/kg | 12.11.19 17.41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.3 | 50.3 | mg/kg | 12.11.19 17.41 | U | 1 |
| Total GRO-DRO | PHC628 | <50.3 | 50.3 | mg/kg | 12.11.19 17.41 | U | 1 |
| Total TPH | PHC635 | <50.3 | 50.3 | mg/kg | 12.11.19 17.41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 73 | % | 70-135 | 12.11.19 17.41 | |
| o-Terphenyl | 84-15-1 | 75 | % | 70-135 | 12.11.19 17.41 | |



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: FS01 | Matrix: Soil | Date Received: 12.11.19 12.20 |
| Lab Sample Id: 645890-001 | Date Collected: 12.10.19 12.29 | Sample Depth: 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 13.00 | Basis: Wet Weight |
| Seq Number: 3110217 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|---------|--------------|----------------|----------------------|-------------|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.11.19 16.28 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.11.19 16.28 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.11.19 16.28 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 12.11.19 16.28 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.11.19 16.28 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.11.19 16.28 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.11.19 16.28 | U | 1 |
| Surrogate | Cas Number | % Recovery | | Units | Limits | Analysis Date | Flag |
| 4-Bromofluorobenzene | 460-00-4 | 111 | | % | 70-130 | 12.11.19 16.28 | |
| 1,4-Difluorobenzene | 540-36-3 | 102 | | % | 70-130 | 12.11.19 16.28 | |



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

Sample Id: **FS02** Matrix: Soil Date Received: 12.11.19 12.20
 Lab Sample Id: 645890-002 Date Collected: 12.10.19 13.23 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.11.19 13.54 Basis: Wet Weight
 Seq Number: 3110184

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 9390 | 100 | mg/kg | 12.11.19 15.56 | | 10 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.11.19 16.40 Basis: Wet Weight
 Seq Number: 3110222

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 12.11.19 18.01 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 12.11.19 18.01 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 12.11.19 18.01 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 12.11.19 18.01 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 12.11.19 18.01 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-135 | 12.11.19 18.01 | |
| o-Terphenyl | 84-15-1 | 88 | % | 70-135 | 12.11.19 18.01 | |



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: FS02 | Matrix: Soil | Date Received: 12.11.19 12.20 |
| Lab Sample Id: 645890-002 | Date Collected: 12.10.19 13.23 | Sample Depth: 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 13.00 | Basis: Wet Weight |
| Seq Number: 3110217 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|---------|--------------|----------------|----------------------|-------------|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.11.19 22.19 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.11.19 22.19 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.11.19 22.19 | U | 1 |
| m,p-Xylenes | 179601-23-1 | 0.00524 | 0.00399 | mg/kg | 12.11.19 22.19 | | 1 |
| o-Xylene | 95-47-6 | 0.00329 | 0.00200 | mg/kg | 12.11.19 22.19 | | 1 |
| Total Xylenes | 1330-20-7 | 0.00853 | 0.00200 | mg/kg | 12.11.19 22.19 | | 1 |
| Total BTEX | | 0.00853 | 0.00200 | mg/kg | 12.11.19 22.19 | | 1 |
| Surrogate | Cas Number | % Recovery | | Units | Limits | Analysis Date | Flag |
| 4-Bromofluorobenzene | 460-00-4 | 119 | | % | 70-130 | 12.11.19 22.19 | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | | % | 70-130 | 12.11.19 22.19 | |



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

Sample Id: **FS03** Matrix: Soil Date Received: 12.11.19 12.20
 Lab Sample Id: 645890-003 Date Collected: 12.10.19 14.09 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.11.19 13.54 Basis: Wet Weight
 Seq Number: 3110184

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|-------------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 7090 | 49.9 | mg/kg | 12.11.19 16.01 | | 5 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.11.19 16.40 Basis: Wet Weight
 Seq Number: 3110222

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |
| Total GRO-DRO | PHC628 | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 76 | % | 70-135 | 12.11.19 18.21 | |
| o-Terphenyl | 84-15-1 | 78 | % | 70-135 | 12.11.19 18.21 | |



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: FS03 | Matrix: Soil | Date Received: 12.11.19 12.20 |
| Lab Sample Id: 645890-003 | Date Collected: 12.10.19 14.09 | Sample Depth: 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 13.00 | Basis: Wet Weight |
| Seq Number: 3110217 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.11.19 17.06 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.11.19 17.06 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.11.19 17.06 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00401 | 0.00401 | mg/kg | 12.11.19 17.06 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.11.19 17.06 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.11.19 17.06 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.11.19 17.06 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 103 | % | 70-130 | 12.11.19 17.06 | | |
| 4-Bromofluorobenzene | 460-00-4 | 117 | % | 70-130 | 12.11.19 17.06 | | |



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

Sample Id: **SW01** Matrix: Soil Date Received: 12.11.19 12.20
 Lab Sample Id: 645890-004 Date Collected: 12.10.19 14.20 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.11.19 13.54 Basis: Wet Weight
 Seq Number: 3110184

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 4940 | 49.6 | mg/kg | 12.11.19 16.07 | | 5 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.11.19 16.40 Basis: Wet Weight
 Seq Number: 3110222

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |
| Total GRO-DRO | PHC628 | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 12.11.19 18.21 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 128 | % | 70-135 | 12.11.19 18.21 | |
| o-Terphenyl | 84-15-1 | 135 | % | 70-135 | 12.11.19 18.21 | |



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SW01 | Matrix: Soil | Date Received: 12.11.19 12.20 |
| Lab Sample Id: 645890-004 | Date Collected: 12.10.19 14.20 | Sample Depth: 0 - 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 13.00 | Basis: Wet Weight |
| Seq Number: 3110217 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00202 | 0.00202 | mg/kg | 12.11.19 17.25 | U | 1 |
| Toluene | 108-88-3 | <0.00202 | 0.00202 | mg/kg | 12.11.19 17.25 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00202 | 0.00202 | mg/kg | 12.11.19 17.25 | U | 1 |
| m,p-Xylenes | 179601-23-1 | 0.00585 | 0.00403 | mg/kg | 12.11.19 17.25 | | 1 |
| o-Xylene | 95-47-6 | 0.00458 | 0.00202 | mg/kg | 12.11.19 17.25 | | 1 |
| Total Xylenes | 1330-20-7 | 0.0104 | 0.00202 | mg/kg | 12.11.19 17.25 | | 1 |
| Total BTEX | | 0.0104 | 0.00202 | mg/kg | 12.11.19 17.25 | | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 106 | % | 70-130 | 12.11.19 17.25 | | |
| 4-Bromofluorobenzene | 460-00-4 | 121 | % | 70-130 | 12.11.19 17.25 | | |



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

Sample Id: **SW02** Matrix: Soil Date Received: 12.11.19 12.20
 Lab Sample Id: 645890-005 Date Collected: 12.10.19 14.21 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.11.19 13.54 Basis: Wet Weight
 Seq Number: 3110184

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 4700 | 49.5 | mg/kg | 12.11.19 16.36 | | 5 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.11.19 16.40 Basis: Wet Weight
 Seq Number: 3110222

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <49.8 | 49.8 | mg/kg | 12.11.19 18.41 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <49.8 | 49.8 | mg/kg | 12.11.19 18.41 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <49.8 | 49.8 | mg/kg | 12.11.19 18.41 | U | 1 |
| Total GRO-DRO | PHC628 | <49.8 | 49.8 | mg/kg | 12.11.19 18.41 | U | 1 |
| Total TPH | PHC635 | <49.8 | 49.8 | mg/kg | 12.11.19 18.41 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 82 | % | 70-135 | 12.11.19 18.41 | |
| o-Terphenyl | 84-15-1 | 82 | % | 70-135 | 12.11.19 18.41 | |



Certificate of Analytical Results 645890

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SW02 | Matrix: Soil | Date Received: 12.11.19 12.20 |
| Lab Sample Id: 645890-005 | Date Collected: 12.10.19 14.21 | Sample Depth: 0 - 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 13.00 | Basis: Wet Weight |
| Seq Number: 3110217 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-----------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.11.19 17.44 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.11.19 17.44 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.11.19 17.44 | U | 1 |
| m,p-Xylenes | 179601-23-1 | 0.00426 | 0.00401 | mg/kg | 12.11.19 17.44 | | 1 |
| o-Xylene | 95-47-6 | 0.00301 | 0.00200 | mg/kg | 12.11.19 17.44 | | 1 |
| Total Xylenes | 1330-20-7 | 0.00727 | 0.00200 | mg/kg | 12.11.19 17.44 | | 1 |
| Total BTEX | | 0.00727 | 0.00200 | mg/kg | 12.11.19 17.44 | | 1 |
| | | | % | | | | |
| Surrogate | Cas Number | Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 12.11.19 17.44 | | |
| 4-Bromofluorobenzene | 460-00-4 | 119 | % | 70-130 | 12.11.19 17.44 | | |



LT Environmental, Inc.

PLU 89

Analytical Method: Chloride by EPA 300

Seq Number: 3110184

MB Sample Id: 7692208-1-BLK

Matrix: Solid

LCS Sample Id: 7692208-1-BKS

Prep Method: E300P

Date Prep: 12.11.19

LCSD Sample Id: 7692208-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <10.0 | 250 | 259 | 104 | 262 | 105 | 90-110 | 1 | 20 | mg/kg | 12.11.19 12:39 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3110184

Parent Sample Id: 645890-001

Matrix: Soil

MS Sample Id: 645890-001 S

Prep Method: E300P

Date Prep: 12.11.19

MSD Sample Id: 645890-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 9000 | 200 | 9160 | 80 | 9170 | 85 | 90-110 | 0 | 20 | mg/kg | 12.11.19 15:44 | X |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110222

MB Sample Id: 7692253-1-BLK

Matrix: Solid

LCS Sample Id: 7692253-1-BKS

Prep Method: SW8015P

Date Prep: 12.11.19

LCSD Sample Id: 7692253-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 973 | 97 | 923 | 92 | 70-135 | 5 | 35 | mg/kg | 12.11.19 17:18 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 823 | 82 | 807 | 81 | 70-135 | 2 | 35 | mg/kg | 12.11.19 17:18 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 71 | | 100 | | 95 | | 70-135 | % | 12.11.19 17:18 |
| o-Terphenyl | 74 | | 93 | | 91 | | 70-135 | % | 12.11.19 17:18 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110222

MB Sample Id: 7692253-1-BLK

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.11.19

| Parameter | MB Result | Units | Analysis Date | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 12.11.19 16:58 | |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



LT Environmental, Inc.

PLU 89

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110222

Parent Sample Id: 645890-001

Matrix: Soil

MS Sample Id: 645890-001 S

Prep Method: SW8015P

Date Prep: 12.11.19

MSD Sample Id: 645890-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 925 | 93 | 869 | 86 | 70-135 | 6 | 35 | mg/kg | 12.11.19 17:41 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 832 | 83 | 772 | 76 | 70-135 | 7 | 35 | mg/kg | 12.11.19 17:41 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 98 | | 91 | | 70-135 | % | 12.11.19 17:41 |
| o-Terphenyl | 99 | | 86 | | 70-135 | % | 12.11.19 17:41 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3110217

MB Sample Id: 7692204-1-BLK

Matrix: Solid

LCS Sample Id: 7692204-1-BKS

Prep Method: SW5030B

Date Prep: 12.11.19

LCSD Sample Id: 7692204-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.100 | 0.0954 | 95 | 0.0930 | 93 | 70-130 | 3 | 35 | mg/kg | 12.11.19 14:53 | |
| Toluene | <0.00200 | 0.100 | 0.0966 | 97 | 0.0956 | 96 | 70-130 | 1 | 35 | mg/kg | 12.11.19 14:53 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0953 | 95 | 0.0950 | 95 | 71-129 | 0 | 35 | mg/kg | 12.11.19 14:53 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.201 | 101 | 0.201 | 101 | 70-135 | 0 | 35 | mg/kg | 12.11.19 14:53 | |
| o-Xylene | <0.00200 | 0.100 | 0.101 | 101 | 0.102 | 102 | 71-133 | 1 | 35 | mg/kg | 12.11.19 14:53 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 101 | | 104 | | 103 | | 70-130 | % | 12.11.19 14:53 |
| 4-Bromofluorobenzene | 108 | | 115 | | 116 | | 70-130 | % | 12.11.19 14:53 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3110217

Parent Sample Id: 645890-001

Matrix: Soil

MS Sample Id: 645890-001 S

Prep Method: SW5030B

Date Prep: 12.11.19

MSD Sample Id: 645890-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00201 | 0.101 | 0.106 | 105 | 0.0782 | 77 | 70-130 | 30 | 35 | mg/kg | 12.11.19 15:24 | |
| Toluene | <0.00201 | 0.101 | 0.104 | 103 | 0.0866 | 86 | 70-130 | 18 | 35 | mg/kg | 12.11.19 15:24 | |
| Ethylbenzene | <0.00201 | 0.101 | 0.0978 | 97 | 0.0816 | 81 | 71-129 | 18 | 35 | mg/kg | 12.11.19 15:24 | |
| m,p-Xylenes | <0.00402 | 0.201 | 0.205 | 102 | 0.173 | 86 | 70-135 | 17 | 35 | mg/kg | 12.11.19 15:24 | |
| o-Xylene | <0.00201 | 0.101 | 0.104 | 103 | 0.0864 | 86 | 71-133 | 18 | 35 | mg/kg | 12.11.19 15:24 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 107 | | 99 | | 70-130 | % | 12.11.19 15:24 |
| 4-Bromofluorobenzene | 122 | | 123 | | 70-130 | % | 12.11.19 15:24 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12/11/2019 12:20:00 PM

Work Order #: 645890

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T NM 007

| Sample Receipt Checklist | Comments |
|---|----------|
| #1 *Temperature of cooler(s)? | 2.6 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | No |
| #5 Custody Seals intact on sample bottles? | No |
| #6*Custody Seals Signed and dated? | No |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | Yes |
| #18 Water VOC samples have zero headspace? | N/A |

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: Martha Castro Date: 12/11/2019

Checklist reviewed by: Jessica Kramer Date: 12/12/2019

Analytical Report 646007

for
LT Environmental, Inc.

Project Manager: Dan Moir

PLU 89

012919246

12-DEC-19

Collected By: Client



**1089 N Canal Street
Carlsbad, NM 88220**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



12-DEC-19

Project Manager: **Dan Moir**
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): **646007**
PLU 89
Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 646007. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 646007 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads 'Jessica Kramer'.

Jessica Kramer
Project Assistant

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 646007

LT Environmental, Inc., Arvada, CO

PLU 89

| Sample Id | Matrix | Date Collected | Sample Depth | Lab Sample Id |
|-----------|--------|----------------|--------------|---------------|
| SW03 | S | 12-11-19 13:50 | 0 - 4 ft | 646007-001 |
| SW04 | S | 12-11-19 14:25 | 0 - 4 ft | 646007-002 |
| SW05 | S | 12-11-19 14:14 | 0 - 4 ft | 646007-003 |
| FS04 | S | 12-11-19 14:00 | 4 ft | 646007-004 |
| FS05 | S | 12-11-19 14:02 | 4 ft | 646007-005 |



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: PLU 89

Project ID: 012919246
Work Order Number(s): 646007

Report Date: 12-DEC-19
Date Received: 12/11/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3110219 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3110251 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 646007-005,646007-003.



Certificate of Analysis Summary 646007

LT Environmental, Inc., Arvada, CO

Project Name: PLU 89

Project Id: 012919246
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Wed Dec-11-19 04:50 pm
Report Date: 12-DEC-19
Project Manager: Jessica Kramer

| <i>Analysis Requested</i> | <i>Lab Id:</i> | 646007-001 | 646007-002 | 646007-003 | 646007-004 | 646007-005 | |
|------------------------------------|-------------------|------------------|------------------|------------------|------------------|------------------|--|
| | <i>Field Id:</i> | SW03 | SW04 | SW05 | FS04 | FS05 | |
| | <i>Depth:</i> | 0-4 ft | 0-4 ft | 0-4 ft | 4- ft | 4- ft | |
| | <i>Matrix:</i> | SOIL | SOIL | SOIL | SOIL | SOIL | |
| | <i>Sampled:</i> | Dec-11-19 13:50 | Dec-11-19 14:25 | Dec-11-19 14:14 | Dec-11-19 14:00 | Dec-11-19 14:02 | |
| BTEX by EPA 8021B | <i>Extracted:</i> | Dec-11-19 17:00 | |
| | <i>Analyzed:</i> | Dec-12-19 03:25 | Dec-12-19 03:45 | Dec-12-19 04:04 | Dec-12-19 04:23 | Dec-12-19 04:42 | |
| | <i>Units/RL:</i> | mg/kg RL | |
| Benzene | | <0.00200 0.00200 | <0.00200 0.00200 | <0.00196 0.00196 | <0.00198 0.00198 | <0.00200 0.00200 | |
| Toluene | | <0.00200 0.00200 | 0.00400 0.00200 | <0.00196 0.00196 | <0.00198 0.00198 | <0.00200 0.00200 | |
| Ethylbenzene | | <0.00200 0.00200 | 0.00224 0.00200 | <0.00196 0.00196 | <0.00198 0.00198 | <0.00200 0.00200 | |
| m,p-Xylenes | | <0.00399 0.00399 | 0.0102 0.00399 | <0.00393 0.00393 | <0.00397 0.00397 | <0.00399 0.00399 | |
| o-Xylene | | <0.00200 0.00200 | 0.00408 0.00200 | <0.00196 0.00196 | <0.00198 0.00198 | <0.00200 0.00200 | |
| Total Xylenes | | <0.00200 0.00200 | 0.0143 0.00200 | <0.00196 0.00196 | <0.00198 0.00198 | <0.00200 0.00200 | |
| Total BTEX | | <0.00200 0.00200 | 0.0205 0.00200 | <0.00196 0.00196 | <0.00198 0.00198 | <0.00200 0.00200 | |
| Chloride by EPA 300 | <i>Extracted:</i> | Dec-11-19 17:34 | |
| | <i>Analyzed:</i> | Dec-11-19 20:47 | Dec-11-19 20:54 | Dec-11-19 21:00 | Dec-11-19 21:06 | Dec-11-19 21:12 | |
| | <i>Units/RL:</i> | mg/kg RL | |
| Chloride | | 3140 99.6 | 6180 99.2 | 6180 99.0 | 2630 83.9 | 4300 100 | |
| TPH by SW8015 Mod | <i>Extracted:</i> | Dec-11-19 17:00 | |
| | <i>Analyzed:</i> | Dec-11-19 22:02 | Dec-11-19 22:42 | Dec-11-19 22:42 | Dec-11-19 23:02 | Dec-11-19 23:02 | |
| | <i>Units/RL:</i> | mg/kg RL | |
| Gasoline Range Hydrocarbons (GRO) | | <50.1 50.1 | <50.1 50.1 | <50.3 50.3 | <50.2 50.2 | <50.2 50.2 | |
| Diesel Range Organics (DRO) | | <50.1 50.1 | <50.1 50.1 | <50.3 50.3 | <50.2 50.2 | <50.2 50.2 | |
| Motor Oil Range Hydrocarbons (MRO) | | <50.1 50.1 | <50.1 50.1 | <50.3 50.3 | <50.2 50.2 | <50.2 50.2 | |
| Total GRO-DRO | | <50.1 50.1 | <50.1 50.1 | <50.3 50.3 | <50.2 50.2 | <50.2 50.2 | |
| Total TPH | | <50.1 50.1 | <50.1 50.1 | <50.3 50.3 | <50.2 50.2 | <50.2 50.2 | |

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer
Project Assistant



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

Sample Id: **SW03** Matrix: Soil Date Received: 12.11.19 16.50
 Lab Sample Id: 646007-001 Date Collected: 12.11.19 13.50 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.11.19 17.34 Basis: Wet Weight
 Seq Number: 3110204

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 3140 | 99.6 | mg/kg | 12.11.19 20.47 | | 10 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.11.19 17.00 Basis: Wet Weight
 Seq Number: 3110251

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 12.11.19 22.02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 12.11.19 22.02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 12.11.19 22.02 | U | 1 |
| Total GRO-DRO | PHC628 | <50.1 | 50.1 | mg/kg | 12.11.19 22.02 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 12.11.19 22.02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 114 | % | 70-135 | 12.11.19 22.02 | |
| o-Terphenyl | 84-15-1 | 126 | % | 70-135 | 12.11.19 22.02 | |



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SW03 | Matrix: Soil | Date Received: 12.11.19 16.50 |
| Lab Sample Id: 646007-001 | Date Collected: 12.11.19 13.50 | Sample Depth: 0 - 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 17.00 | Basis: Wet Weight |
| Seq Number: 3110219 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-----------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.12.19 03.25 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.12.19 03.25 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.12.19 03.25 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 12.12.19 03.25 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.12.19 03.25 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.12.19 03.25 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.12.19 03.25 | U | 1 |
| | | | % | | | | |
| Surrogate | Cas Number | Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 12.12.19 03.25 | | |
| 4-Bromofluorobenzene | 460-00-4 | 113 | % | 70-130 | 12.12.19 03.25 | | |



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

Sample Id: **SW04** Matrix: Soil Date Received: 12.11.19 16.50
 Lab Sample Id: 646007-002 Date Collected: 12.11.19 14.25 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.11.19 17.34 Basis: Wet Weight
 Seq Number: 3110204

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 6180 | 99.2 | mg/kg | 12.11.19 20.54 | | 10 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.11.19 17.00 Basis: Wet Weight
 Seq Number: 3110251

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.1 | 50.1 | mg/kg | 12.11.19 22.42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.1 | 50.1 | mg/kg | 12.11.19 22.42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.1 | 50.1 | mg/kg | 12.11.19 22.42 | U | 1 |
| Total GRO-DRO | PHC628 | <50.1 | 50.1 | mg/kg | 12.11.19 22.42 | U | 1 |
| Total TPH | PHC635 | <50.1 | 50.1 | mg/kg | 12.11.19 22.42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 105 | % | 70-135 | 12.11.19 22.42 | |
| o-Terphenyl | 84-15-1 | 107 | % | 70-135 | 12.11.19 22.42 | |



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SW04 | Matrix: Soil | Date Received: 12.11.19 16.50 |
| Lab Sample Id: 646007-002 | Date Collected: 12.11.19 14.25 | Sample Depth: 0 - 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 17.00 | Basis: Wet Weight |
| Seq Number: 3110219 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.12.19 03.45 | U | 1 |
| Toluene | 108-88-3 | 0.00400 | 0.00200 | mg/kg | 12.12.19 03.45 | | 1 |
| Ethylbenzene | 100-41-4 | 0.00224 | 0.00200 | mg/kg | 12.12.19 03.45 | | 1 |
| m,p-Xylenes | 179601-23-1 | 0.0102 | 0.00399 | mg/kg | 12.12.19 03.45 | | 1 |
| o-Xylene | 95-47-6 | 0.00408 | 0.00200 | mg/kg | 12.12.19 03.45 | | 1 |
| Total Xylenes | 1330-20-7 | 0.0143 | 0.00200 | mg/kg | 12.12.19 03.45 | | 1 |
| Total BTEX | | 0.0205 | 0.00200 | mg/kg | 12.12.19 03.45 | | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 12.12.19 03.45 | | |
| 4-Bromofluorobenzene | 460-00-4 | 122 | % | 70-130 | 12.12.19 03.45 | | |



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

Sample Id: **SW05** Matrix: Soil Date Received: 12.11.19 16.50
 Lab Sample Id: 646007-003 Date Collected: 12.11.19 14.14 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.11.19 17.34 Basis: Wet Weight
 Seq Number: 3110204

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 6180 | 99.0 | mg/kg | 12.11.19 21.00 | | 10 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.11.19 17.00 Basis: Wet Weight
 Seq Number: 3110251

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.3 | 50.3 | mg/kg | 12.11.19 22.42 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.3 | 50.3 | mg/kg | 12.11.19 22.42 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.3 | 50.3 | mg/kg | 12.11.19 22.42 | U | 1 |
| Total GRO-DRO | PHC628 | <50.3 | 50.3 | mg/kg | 12.11.19 22.42 | U | 1 |
| Total TPH | PHC635 | <50.3 | 50.3 | mg/kg | 12.11.19 22.42 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 131 | % | 70-135 | 12.11.19 22.42 | |
| o-Terphenyl | 84-15-1 | 140 | % | 70-135 | 12.11.19 22.42 | ** |



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: SW05 | Matrix: Soil | Date Received: 12.11.19 16.50 |
| Lab Sample Id: 646007-003 | Date Collected: 12.11.19 14.14 | Sample Depth: 0 - 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 17.00 | Basis: Wet Weight |
| Seq Number: 3110219 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00196 | 0.00196 | mg/kg | 12.12.19 04.04 | U | 1 |
| Toluene | 108-88-3 | <0.00196 | 0.00196 | mg/kg | 12.12.19 04.04 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00196 | 0.00196 | mg/kg | 12.12.19 04.04 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00393 | 0.00393 | mg/kg | 12.12.19 04.04 | U | 1 |
| o-Xylene | 95-47-6 | <0.00196 | 0.00196 | mg/kg | 12.12.19 04.04 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00196 | 0.00196 | mg/kg | 12.12.19 04.04 | U | 1 |
| Total BTEX | | <0.00196 | 0.00196 | mg/kg | 12.12.19 04.04 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 1,4-Difluorobenzene | 540-36-3 | 102 | % | 70-130 | 12.12.19 04.04 | | |
| 4-Bromofluorobenzene | 460-00-4 | 123 | % | 70-130 | 12.12.19 04.04 | | |



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

Sample Id: **FS04** Matrix: Soil Date Received: 12.11.19 16.50
 Lab Sample Id: 646007-004 Date Collected: 12.11.19 14.00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.11.19 17.34 Basis: Wet Weight
 Seq Number: 3110204

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|------|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 2630 | 83.9 | mg/kg | 12.11.19 21.06 | | 10 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.11.19 17.00 Basis: Wet Weight
 Seq Number: 3110251

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 110 | % | 70-135 | 12.11.19 23.02 | |
| o-Terphenyl | 84-15-1 | 114 | % | 70-135 | 12.11.19 23.02 | |



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: FS04 | Matrix: Soil | Date Received: 12.11.19 16.50 |
| Lab Sample Id: 646007-004 | Date Collected: 12.11.19 14.00 | Sample Depth: 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 17.00 | Basis: Wet Weight |
| Seq Number: 3110219 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|---------|--------------|----------------|----------------------|-------------|
| Benzene | 71-43-2 | <0.00198 | 0.00198 | mg/kg | 12.12.19 04.23 | U | 1 |
| Toluene | 108-88-3 | <0.00198 | 0.00198 | mg/kg | 12.12.19 04.23 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00198 | 0.00198 | mg/kg | 12.12.19 04.23 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00397 | 0.00397 | mg/kg | 12.12.19 04.23 | U | 1 |
| o-Xylene | 95-47-6 | <0.00198 | 0.00198 | mg/kg | 12.12.19 04.23 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00198 | 0.00198 | mg/kg | 12.12.19 04.23 | U | 1 |
| Total BTEX | | <0.00198 | 0.00198 | mg/kg | 12.12.19 04.23 | U | 1 |
| Surrogate | Cas Number | % Recovery | | Units | Limits | Analysis Date | Flag |
| 4-Bromofluorobenzene | 460-00-4 | 112 | | % | 70-130 | 12.12.19 04.23 | |
| 1,4-Difluorobenzene | 540-36-3 | 100 | | % | 70-130 | 12.12.19 04.23 | |



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

Sample Id: **FS05** Matrix: Soil Date Received: 12.11.19 16.50
 Lab Sample Id: 646007-005 Date Collected: 12.11.19 14.02 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 12.11.19 17.34 Basis: Wet Weight
 Seq Number: 3110204

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|-----------|------------|--------|-----|-------|----------------|------|-----|
| Chloride | 16887-00-6 | 4300 | 100 | mg/kg | 12.11.19 21.12 | | 10 |

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 12.11.19 17.00 Basis: Wet Weight
 Seq Number: 3110251

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|------------------------------------|------------|--------|------|-------|----------------|------|-----|
| Gasoline Range Hydrocarbons (GRO) | PHC610 | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |
| Diesel Range Organics (DRO) | C10C28DRO | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |
| Motor Oil Range Hydrocarbons (MRO) | PHCG2835 | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |
| Total GRO-DRO | PHC628 | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |
| Total TPH | PHC635 | <50.2 | 50.2 | mg/kg | 12.11.19 23.02 | U | 1 |

| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag |
|----------------|------------|------------|-------|--------|----------------|------|
| 1-Chlorooctane | 111-85-3 | 125 | % | 70-135 | 12.11.19 23.02 | |
| o-Terphenyl | 84-15-1 | 136 | % | 70-135 | 12.11.19 23.02 | ** |



Certificate of Analytical Results 646007

LT Environmental, Inc., Arvada, CO

PLU 89

| | | |
|--------------------------------------|--------------------------------|-------------------------------|
| Sample Id: FS05 | Matrix: Soil | Date Received: 12.11.19 16.50 |
| Lab Sample Id: 646007-005 | Date Collected: 12.11.19 14.02 | Sample Depth: 4 ft |
| Analytical Method: BTEX by EPA 8021B | | Prep Method: SW5030B |
| Tech: MAB | | % Moisture: |
| Analyst: MAB | Date Prep: 12.11.19 17.00 | Basis: Wet Weight |
| Seq Number: 3110219 | | |

| Parameter | Cas Number | Result | RL | Units | Analysis Date | Flag | Dil |
|----------------------|-------------------|-------------------|--------------|---------------|----------------------|-------------|-----|
| Benzene | 71-43-2 | <0.00200 | 0.00200 | mg/kg | 12.12.19 04.42 | U | 1 |
| Toluene | 108-88-3 | <0.00200 | 0.00200 | mg/kg | 12.12.19 04.42 | U | 1 |
| Ethylbenzene | 100-41-4 | <0.00200 | 0.00200 | mg/kg | 12.12.19 04.42 | U | 1 |
| m,p-Xylenes | 179601-23-1 | <0.00399 | 0.00399 | mg/kg | 12.12.19 04.42 | U | 1 |
| o-Xylene | 95-47-6 | <0.00200 | 0.00200 | mg/kg | 12.12.19 04.42 | U | 1 |
| Total Xylenes | 1330-20-7 | <0.00200 | 0.00200 | mg/kg | 12.12.19 04.42 | U | 1 |
| Total BTEX | | <0.00200 | 0.00200 | mg/kg | 12.12.19 04.42 | U | 1 |
| Surrogate | Cas Number | % Recovery | Units | Limits | Analysis Date | Flag | |
| 4-Bromofluorobenzene | 460-00-4 | 120 | % | 70-130 | 12.12.19 04.42 | | |
| 1,4-Difluorobenzene | 540-36-3 | 104 | % | 70-130 | 12.12.19 04.42 | | |



LT Environmental, Inc.

PLU 89

Analytical Method: Chloride by EPA 300

Seq Number: 3110204

MB Sample Id: 7692228-1-BLK

Matrix: Solid

LCS Sample Id: 7692228-1-BKS

Prep Method: E300P

Date Prep: 12.11.19

LCSD Sample Id: 7692228-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Chloride | <10.0 | 250 | 265 | 106 | 263 | 105 | 90-110 | 1 | 20 | mg/kg | 12.11.19 18:32 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3110204

Parent Sample Id: 645968-001

Matrix: Soil

MS Sample Id: 645968-001 S

Prep Method: E300P

Date Prep: 12.11.19

MSD Sample Id: 645968-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 248 | 200 | 456 | 104 | 461 | 106 | 90-110 | 1 | 20 | mg/kg | 12.11.19 18:49 | |

Analytical Method: Chloride by EPA 300

Seq Number: 3110204

Parent Sample Id: 646001-002

Matrix: Soil

MS Sample Id: 646001-002 S

Prep Method: E300P

Date Prep: 12.11.19

MSD Sample Id: 646001-002 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Chloride | 233 | 200 | 428 | 98 | 417 | 93 | 90-110 | 3 | 20 | mg/kg | 12.11.19 20:04 | |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110251

MB Sample Id: 7692245-1-BLK

Matrix: Solid

LCS Sample Id: 7692245-1-BKS

Prep Method: SW8015P

Date Prep: 12.11.19

LCSD Sample Id: 7692245-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | 1000 | 1090 | 109 | 963 | 96 | 70-135 | 12 | 35 | mg/kg | 12.11.19 21:41 | |
| Diesel Range Organics (DRO) | <50.0 | 1000 | 954 | 95 | 1010 | 101 | 70-135 | 6 | 35 | mg/kg | 12.11.19 21:41 | |

Surrogate

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1-Chlorooctane | 96 | | 114 | | 117 | | 70-135 | % | 12.11.19 21:41 |
| o-Terphenyl | 101 | | 111 | | 112 | | 70-135 | % | 12.11.19 21:41 |

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110251

MB Sample Id: 7692245-1-BLK

Matrix: Solid

Prep Method: SW8015P

Date Prep: 12.11.19

| Parameter | MB Result | Units | Analysis Date | Flag |
|------------------------------------|-----------|-------|----------------|------|
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | mg/kg | 12.11.19 21:41 | |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



LT Environmental, Inc.

PLU 89

Analytical Method: TPH by SW8015 Mod

Seq Number: 3110251

Parent Sample Id: 646007-001

Matrix: Soil

MS Sample Id: 646007-001 S

Prep Method: SW8015P

Date Prep: 12.11.19

MSD Sample Id: 646007-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|-----------------------------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Gasoline Range Hydrocarbons (GRO) | <49.8 | 996 | 909 | 91 | 1080 | 108 | 70-135 | 17 | 35 | mg/kg | 12.11.19 22:22 | |
| Diesel Range Organics (DRO) | <49.8 | 996 | 827 | 83 | 982 | 98 | 70-135 | 17 | 35 | mg/kg | 12.11.19 22:22 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------|---------|---------|----------|----------|--------|-------|----------------|
| 1-Chlorooctane | 102 | | 119 | | 70-135 | % | 12.11.19 22:22 |
| o-Terphenyl | 99 | | 117 | | 70-135 | % | 12.11.19 22:22 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3110219

MB Sample Id: 7692236-1-BLK

Matrix: Solid

LCS Sample Id: 7692236-1-BKS

Prep Method: SW5030B

Date Prep: 12.11.19

LCSD Sample Id: 7692236-1-BSD

| Parameter | MB Result | Spike Amount | LCS Result | LCS %Rec | LCSD Result | LCSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|-----------|--------------|------------|----------|-------------|-----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00200 | 0.100 | 0.0933 | 93 | 0.0909 | 91 | 70-130 | 3 | 35 | mg/kg | 12.12.19 01:43 | |
| Toluene | <0.00200 | 0.100 | 0.0951 | 95 | 0.0931 | 93 | 70-130 | 2 | 35 | mg/kg | 12.12.19 01:43 | |
| Ethylbenzene | <0.00200 | 0.100 | 0.0935 | 94 | 0.0919 | 92 | 71-129 | 2 | 35 | mg/kg | 12.12.19 01:43 | |
| m,p-Xylenes | <0.00400 | 0.200 | 0.198 | 99 | 0.194 | 97 | 70-135 | 2 | 35 | mg/kg | 12.12.19 01:43 | |
| o-Xylene | <0.00200 | 0.100 | 0.101 | 101 | 0.0995 | 100 | 71-133 | 1 | 35 | mg/kg | 12.12.19 01:43 | |

| Surrogate | MB %Rec | MB Flag | LCS %Rec | LCS Flag | LCSD %Rec | LCSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|-----------|-----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 101 | | 104 | | 103 | | 70-130 | % | 12.12.19 01:43 |
| 4-Bromofluorobenzene | 109 | | 119 | | 121 | | 70-130 | % | 12.12.19 01:43 |

Analytical Method: BTEX by EPA 8021B

Seq Number: 3110219

Parent Sample Id: 646007-001

Matrix: Soil

MS Sample Id: 646007-001 S

Prep Method: SW5030B

Date Prep: 12.11.19

MSD Sample Id: 646007-001 SD

| Parameter | Parent Result | Spike Amount | MS Result | MS %Rec | MSD Result | MSD %Rec | Limits | %RPD | RPD Limit | Units | Analysis Date | Flag |
|--------------|---------------|--------------|-----------|---------|------------|----------|--------|------|-----------|-------|----------------|------|
| Benzene | <0.00198 | 0.0992 | 0.0896 | 90 | 0.0942 | 95 | 70-130 | 5 | 35 | mg/kg | 12.12.19 02:22 | |
| Toluene | 0.00103 | 0.0992 | 0.0893 | 89 | 0.0954 | 95 | 70-130 | 7 | 35 | mg/kg | 12.12.19 02:22 | |
| Ethylbenzene | 0.000729 | 0.0992 | 0.0850 | 85 | 0.0907 | 91 | 71-129 | 6 | 35 | mg/kg | 12.12.19 02:22 | |
| m,p-Xylenes | 0.00222 | 0.198 | 0.179 | 89 | 0.194 | 96 | 70-135 | 8 | 35 | mg/kg | 12.12.19 02:22 | |
| o-Xylene | 0.00131 | 0.0992 | 0.0912 | 91 | 0.0986 | 98 | 71-133 | 8 | 35 | mg/kg | 12.12.19 02:22 | |

| Surrogate | MS %Rec | MS Flag | MSD %Rec | MSD Flag | Limits | Units | Analysis Date |
|----------------------|---------|---------|----------|----------|--------|-------|----------------|
| 1,4-Difluorobenzene | 104 | | 105 | | 70-130 | % | 12.12.19 02:22 |
| 4-Bromofluorobenzene | 121 | | 119 | | 70-130 | % | 12.12.19 02:22 |

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* |(C-E) / (C+E)|
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 899-6701
 Atlanta, GA (770) 449-8800

Work Order No: 246007

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| | | | |
|------------------|--|-------------------------|-----------------------------------|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littrell |
| Company Name: | LT Environmental, Inc., Permian Office | Company Name: | XTO Energy, Inc. |
| Address: | 3300 North A Street | Address: | 3104 E Greene St |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | fsmith@ltenv.com, dmoir@ltenv.com |

| | | |
|--|---------------------------------------|------------------------------------|
| Program: UST/PS <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RR <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: _____ Reporting Level: <input type="checkbox"/> Level <input type="checkbox"/> PST/US <input type="checkbox"/> TRK <input type="checkbox"/> Level <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____ | Work Order Comments _____ _____ | Work Order Notes _____ _____ |
|--|---------------------------------------|------------------------------------|

| | | | |
|-----------------------|---|--------------------|---|
| Project Name: | PL089 | Turn Around | <input type="checkbox"/> |
| Project Number: | 012919246 | Routine: | <input type="checkbox"/> |
| PO #: | addy county | Rush: | 24 hrs |
| Sampler's Name: | Fatima Smith | Due Date: | |
| Temperature ('C): | 14 | Temp Blank: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Thermometer ID: | FNMM007 |
| Cooler Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Total Containers: | 5 |

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | | | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|----------------------|-------------------|----------------------|-----------------|
| | | | | | TPH (EPA 8015) | BTEX (EPA 0=8021) | Chloride (EPA 300.0) | |
| SW03 | S | 12/11/19 | 1350 | 0-4' | X | X | X | |
| SW04 | S | 12/11/19 | 1425 | 0-4' | X | X | X | |
| SW05 | S | 12/11/19 | 1414 | 0-4' | X | X | X | |
| FS04 | S | 12/11/19 | 1400 | 4' | X | X | X | |
| FS05 | S | 12/11/19 | 1402 | 4' | X | X | X | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag 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 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. Its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to 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> | 12/11/19 16:50 | | | |
| | | 12/11/19 ce | | | |



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12/11/2019 04:50:00 PM

Work Order #: 646007

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : T-NM-007

| Sample Receipt Checklist | Comments |
|---|----------|
| #1 *Temperature of cooler(s)? | .4 |
| #2 *Shipping container in good condition? | Yes |
| #3 *Samples received on ice? | Yes |
| #4 *Custody Seals intact on shipping container/ cooler? | Yes |
| #5 Custody Seals intact on sample bottles? | Yes |
| #6*Custody Seals Signed and dated? | Yes |
| #7 *Chain of Custody present? | Yes |
| #8 Any missing/extra samples? | No |
| #9 Chain of Custody signed when relinquished/ received? | Yes |
| #10 Chain of Custody agrees with sample labels/matrix? | Yes |
| #11 Container label(s) legible and intact? | Yes |
| #12 Samples in proper container/ bottle? | Yes |
| #13 Samples properly preserved? | Yes |
| #14 Sample container(s) intact? | Yes |
| #15 Sufficient sample amount for indicated test(s)? | Yes |
| #16 All samples received within hold time? | Yes |
| #17 Subcontract of sample(s)? | No |
| #18 Water VOC samples have zero headspace? | N/A |

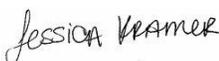
* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by: 
Elizabeth McClellan

Date: 12/11/2019

Checklist reviewed by: 
Jessica Kramer

Date: 12/12/2019



APPENDIX C

Lithologic Soil Sampling Logs

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: BH03 | Date: 11/21/2019 | | | | | |
|---|----------------|--------------------------------|--------------------|-----------|-----------------------|-------------------|------------------|--|
| | | Site Name: PLU 89 SWD Line | | | | | | |
| | | Incident Number: nRM1932350962 | | | | | | |
| | | Job Number: 03E1558076 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.188744, -103.829861 | | Logged By: EL | Method: Hand Auger | | | | | |
| | | Hole Diameter: 6" | Total Depth: 2' | | | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| Dry | >122 | 0.0 | N | | 2 | 0 | SW | SAND, dry, brown, trace silt, no stain, odor |
| | | | | | | Total Depth: 2 ft | | |

|  | | | | Sample Name: BH04 | | Date: 11/21/19-8/19/20 | | |
|---|----------------|-------------|----------|-------------------------------------|-----------------------|------------------------|------------------|--|
| | | | | Site Name: PLU 89 SWD Line | | | | Incident Number: nRM1932350962 |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | Job Number: 03E1558076 | | Logged By: EL/RM | | |
| | | | | Coordinates: 32.188188, -103.830161 | | Hole Diameter: 3" | | Method: Hand Auger |
| 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 is included in all chloride screenings. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | 6,660 | 4.2 | N | BH04 | 0 | 0 | SP | SAND, brown, moist, small rounded - fine grained, trace clay |
| | | | | | 1 | 1 | | |
| M | 9,200 | 2.1 | N | BH04 | 2 | 2 | | SAND, brown, moist, small rounded-fine grained, trace silt |
| M | 9,900 | 4 | N | | 3 | 3 | SP-SC | |
| M | 9,200 | 4 | N | BH04A | 4 | 4 | | CALICHE, Hand auger refusal |
| | | | | | 4.5 | 4.5 | CCHE | |
| Total Depth: 4 ft | | | | | | | | |

|  | | Sample Name: BH07 | | Date: 11/21/2019 | | | | |
|---|----------------|--------------------------------|-------------------|------------------|-----------------------|----------------|------------------|--|
| | | Site Name: PLU 89 SWD Line | | | | | | |
| | | Incident Number: nRM1932350962 | | | | | | |
| | | Job Number: 03E1558076 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.189080, -103.829731 | | | Logged By: EL | | Method: Hand Auger | | | |
| | | | Hole Diameter: 3" | | Total Depth: 2' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| Dry | <112 | 0.1 | N | BH07 | | 0 | | SAND, brown, moist, small rounded - fine grained, trace clay |
| | | | | | | 1 | | |
| | | | | | | 2 | | |
| | | | | | | | | Total Depth: 2 ft |

|  | | | | Sample Name: BH08 | | Date: 12/2/2019 | | |
|---|----------------|-------------|----------|--------------------------------|-----------------------|--------------------|------------------|--|
| | | | | Site Name: PLU 89 SWD Line | | | | |
| | | | | Incident Number: nRM1932350962 | | | | |
| | | | | Job Number: 03E1558076 | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | Logged By: EL | | Method: Hand Auger | | |
| Coordinates: 32.188644, -103.829972 | | | | Hole Diameter: 3" | | Total Depth: 3' | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| Dry | | | | BH08 | | 0 | SP | SAND, brown, moist, small rounded - fine grained, trace clay |
| | | | | | | 1 | | |
| | | | | | | 2 | | |
| Dry | | | | BH08A | | 3 | | |
| | | | | | | | | Total Depth: 3 ft |

|  | | | | Sample Name: BH09 | | Date: 8/19/2020 | | |
|---|----------------|-------------|----------|--------------------------------|-----------------------|--------------------|------------------|--|
| | | | | Site Name: PLU 89 SWD Line | | | | |
| | | | | Incident Number: nRM1932350962 | | | | |
| | | | | Job Number: 03E1558076 | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | Logged By: RM | | Method: Hand Auger | | |
| Coordinates: 32.188648, -103.830019 | | | | Hole Diameter: 3" | | Total Depth: 4' | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | 3,150 | 49.3 | N | BH09 | | 0 1 | SP | SAND, brown, moist, small rounded - fine grained, trace clay |
| M | 3,550 | 7.8 | N | | | 2 3 | | Very little odor |
| M | 2,425 | 4.1 | N | BH09A | | 4 4.5 | CCHE | CALICHE, Auger Refusal |
| Total Depth: 4 ft | | | | | | | | |

|  | | | | | | | | Sample Name: BH10 | Date: 8/19/2020 |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|---|--------------------|
| | | | | | | | | Site Name: PLU 89 SWD Line | |
| | | | | | | | | Incident Number: nRM1932350962 | |
| | | | | | | | | Job Number: 03E1558076 | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: RM | Method: Hand Auger |
| Coordinates: 32.188797, -103.829962 | | | | | | | | Hole Diameter: 3" | Total Depth: 4' |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | |
| M | 490 | 96 | N | | | 0 | SP | SAND, brown, moist, small rounded - fine grained, trace clay, slight odor | |
| | | | | | | 1 | | | |
| M | 2,270 | 127 | N | BH10 | | 2 | | | |
| M | 7,230 | 82 | N | | | 3 | | | |
| M | 500 | 73 | N | BH10A | | 4 | | CALICHE, Auger Refusal | |
| | | | | | | 4.5 | CCHE | | |
| | | | | | | | | Total Depth: 4 ft | |

|  | | Sample Name: BH11 | | Date: 8/19/2020 | | | | |
|---|----------------|----------------------------|----------|-------------------------------------|-----------------------|--------------------|-------------------|---|
| | | Site Name: PLU 89 SWD Line | | | | | | |
| Incident Number: nRM1932350962 | | | | Job Number: 03E1558076 | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | Logged By: RM | | Method: Hand Auger | | |
| | | | | Coordinates: 32.188723, -103.830059 | | Hole Diameter: 3" | | Total Depth: 4' |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | 871 | 4.1 | N | BH11 | | 0 | SP | SAND, brown, moist, small rounded - fine grained, trace clay, slight odor |
| | | | | | | 1 | | |
| M | 817 | 2.4 | N | | | 2 | | |
| M | 3,990 | 2.1 | N | | | 3 | | |
| M | 3,990 | 3.1 | N | BH11A | | 4 | CCHE | CALICHE, Auger Refusal |
| | | | | | | 4.5 | | |
| | | | | | | | Total Depth: 4 ft | |

|  | | | | | | | | Sample Name: PH01/PH01A | Date: 3/4/2021 |
|---|----------------|-------------|----------|-----------|-----------------------|----------------|------------------|--|-----------------|
| | | | | | | | | Site Name: PLU 89 SWD Line | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | Logged By: EL | Method: Backhoe |
| Coordinates: 32.188136, -103.830132 | | | | | | | | Hole Diameter: 2' | Total Depth: 4' |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. | | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions | |
| | | | | | | 0 | SP | SAND, brown, moist, small rounded - fine grained, trace clay | |
| M | <168 | 0 | N | PH01 | | 1 | | | |
| M | <168 | 0 | N | | | 2 | | | |
| M | <168 | 0 | N | | | 3 | SP-SC | SAND, brown, moist, small rounded - fine grained, trace silt | |
| M | <168 | 0 | N | PH01A | | 4 | | | |
| | | | | | | 4.5 | CCHE | CALICHE, Hand Auger Refusal | |
| | | | | | | | | Total Depth: 4 ft | |

|  | | | | Sample Name: PH02/PH02A | | Date: 3/4/2021 | | |
|---|----------------|-------------|----------|--------------------------------|-----------------------|-----------------|------------------|--|
| | | | | Site Name: PLU 89 SWD Line | | | | |
| | | | | Incident Number: nRM1932350962 | | | | |
| | | | | Job Number: 03E1558076 | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | Logged By: EL | | Method: Bachhoe | | |
| Coordinates: 32.188221, -103.830167 | | | | Hole Diameter: 2' | | Total Depth: 4' | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| M | <168 | 0 | N | PH02 | | 0 | SP | SAND, brown, moist, small rounded - fine grained, trace clay |
| M | <168 | 0 | N | | | 1 | | |
| M | <168 | 0 | N | | | 2 | | |
| M | <168 | 0 | N | | | 3 | SP-SC | |
| M | <168 | 0 | N | PH02A | | 4 | | SAND, brown, moist, small rounded - fine grained, trace silt |
| | | | | | | 4.5 | CCHE | CALICHE, Hand Auger Refusal |
| Total Depth: 4 ft | | | | | | | | |

|  ENSOLUM Environmental, Engineering and Hydrogeologic Consultants | | Sample Name: PH03/PH03A | | Date: 3/4/2021 | | | | |
|---|----------------|--------------------------------|-------------------|----------------|-----------------------|----------------|------------------|--|
| | | Site Name: PLU 89 SWD Line | | | | | | |
| | | Incident Number: nRM1932350962 | | | | | | |
| | | Job Number: 03E1558076 | | | | | | |
| LITHOLOGIC / SOIL SAMPLING LOG | | | | | | | | |
| Coordinates: 32.188620, -103.829872 | | | Logged By: EL | | Method: Backhoe | | | |
| | | | Hole Diameter: 2' | | Total Depth: 4' | | | |
| Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included in all chloride screenings. | | | | | | | | |
| Moisture Content | Chloride (ppm) | Vapor (ppm) | Staining | Sample ID | Sample Depth (ft bgs) | Depth (ft bgs) | USCS/Rock Symbol | Lithologic Descriptions |
| | | | | | | 0 | SP | SAND, brown, moist, small rounded - fine grained, trace clay |
| Dry | <168 | 0 | | PH03 | | 1 | | |
| Dry | <168 | 0 | | | | 2 | | |
| Dry | <168 | 0 | | | | 3 | | |
| Dry | <168 | 0 | | PH03A | | 4 | | |
| | | | | | | | | Total Depth: 4 ft |



APPENDIX D
Photographic Log



Photographic Log

XTO Energy, Inc.

PLU 89

NRM1932350962



Photograph: 1 Date: 10/14/2019
Description: Point of release during line repair activities
View: North



Photograph: 2 Date: 11/21/2019
Description: Hydrovac activities
View: Southwest



Photograph: 3 Date: 12/10/2019
Description: Excavation activity around point of release
View: North



Photograph: 4 Date: 2/22/2021
Description: Excavation of southern portion of site
View: South



Photographic Log

XTO Energy, Inc.

PLU 89

NRM1932350962



Photograph: 5 Date: 02/23/2021
Description: Northeast view of excavation activity on site
View: Northeast



Photograph: 6 Date: 2/23/2021
Description: View of Excavation on Northern portion
View: North



Photograph: 7 Date: 03/04/2021
Description: View of excavation extent near FS08
View: South



Photograph: 8 Date: 11/18/2022
Description: Line exposure with hydrovac
View: East



Photographic Log

XTO Energy, Inc.

PLU 89

NRM1932350962

223°SW (T) • 32.18864, -103.829947 ±3m ▲ 1023m



Backfill PLU 89 17 Jun 2025, 10:08:14 AM

Photograph: 9 Date: 06/17/2025
Description: Backfilled excavation
View: Southwest

38°NE (T) • 32.188691, -103.830028 ±3m ▲ 1023m



Backfill PLU 89 17 Jun 2025, 10:07:49 AM

Photograph: 10 Date: 06/17/2025
Description: Backfilled excavation near point of release
View: Northeast

37°NE (T) • 32.188639, -103.829944 ±3m ▲ 1023m



Backfill PLU 89 17 Jun 2025, 10:08:10 AM

Photograph: 11 Date: 06/17/2025
Description: Backfilled excavation
View: Northeast

166°SE (T) • 32.188689, -103.830029 ±3m ▲ 1023m



Backfill PLU 89 17 Jun 2025, 10:07:45 AM

Photograph: 12 Date: 06/17/2025
Description: Backfilled excavation
View: Southeast



APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Tacoma Morrissey
 Ensolum
 705 W. Wadley
 Suite 210
 Midland, Texas 79701

Generated 11/29/2022 9:00:02 AM

JOB DESCRIPTION

EMSU B Facility
 SDG NUMBER 03E2077002

JOB NUMBER

890-3533-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

Authorization



Generated
11/29/2022 9:00:02 AM

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

Client: Ensolum
Project/Site: EMSU B Facility

Laboratory Job ID: 890-3533-1
SDG: 03E2077002

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Definitions/Glossary

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Job ID: 890-3533-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-3533-1****Receipt**

The samples were received on 11/18/2022 1:07 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 9.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS67A (890-3533-1), FS68A (890-3533-2), FS69A (890-3533-3), FS70A (890-3533-4) and FS71A (890-3533-5).

GC VOA

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

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

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

Method 8021B: Surrogate recovery for the following samples were outside control limits: FS67A (890-3533-1), FS68A (890-3533-2), FS69A (890-3533-3) and FS70A (890-3533-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

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

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

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

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

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

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

Case Narrative

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Job ID: 890-3533-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

HPLC/IC

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

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Client Sample Results

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Client Sample ID: FS67A

Lab Sample ID: 890-3533-1

Date Collected: 11/18/22 09:10

Matrix: Solid

Date Received: 11/18/22 13:07

Sample Depth: 1.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:27 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:27 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:27 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:27 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:27 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 63 | S1- | 70 - 130 | 11/28/22 12:53 | 11/29/22 05:27 | 1 |
| 1,4-Difluorobenzene (Surr) | 91 | | 70 - 130 | 11/28/22 12:53 | 11/29/22 05:27 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/29/22 09:34 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/28/22 11:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U*1 | 49.9 | mg/Kg | | 11/23/22 15:04 | 11/24/22 01:27 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/23/22 15:04 | 11/24/22 01:27 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/23/22 15:04 | 11/24/22 01:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100 | | 70 - 130 | 11/23/22 15:04 | 11/24/22 01:27 | 1 |
| o-Terphenyl | 116 | | 70 - 130 | 11/23/22 15:04 | 11/24/22 01:27 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 36.5 | | 4.98 | mg/Kg | | | 11/23/22 23:46 | 1 |

Client Sample ID: FS68A

Lab Sample ID: 890-3533-2

Date Collected: 11/18/22 09:15

Matrix: Solid

Date Received: 11/18/22 13:07

Sample Depth: 1.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:48 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:48 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:48 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:48 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:48 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/28/22 12:53 | 11/29/22 05:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 68 | S1- | 70 - 130 | 11/28/22 12:53 | 11/29/22 05:48 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Client Sample ID: FS68A

Lab Sample ID: 890-3533-2

Date Collected: 11/18/22 09:15

Matrix: Solid

Date Received: 11/18/22 13:07

Sample Depth: 1.5'

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 112 | | 70 - 130 | 11/28/22 12:53 | 11/29/22 05:48 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 11/29/22 09:34 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/28/22 11:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *1 | 49.9 | mg/Kg | | 11/23/22 15:04 | 11/24/22 01:48 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/23/22 15:04 | 11/24/22 01:48 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/23/22 15:04 | 11/24/22 01:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100 | | 70 - 130 | 11/23/22 15:04 | 11/24/22 01:48 | 1 |
| o-Terphenyl | 116 | | 70 - 130 | 11/23/22 15:04 | 11/24/22 01:48 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 31.1 | | 4.97 | mg/Kg | | | 11/23/22 23:53 | 1 |

Client Sample ID: FS69A

Lab Sample ID: 890-3533-3

Date Collected: 11/18/22 09:20

Matrix: Solid

Date Received: 11/18/22 13:07

Sample Depth: 1.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:08 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:08 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:08 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:08 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:08 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 64 | S1- | 70 - 130 | 11/28/22 12:53 | 11/29/22 06:08 | 1 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 | 11/28/22 12:53 | 11/29/22 06:08 | 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 | | | 11/29/22 09:34 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/28/22 11:40 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Client Sample ID: FS69A

Lab Sample ID: 890-3533-3

Date Collected: 11/18/22 09:20

Matrix: Solid

Date Received: 11/18/22 13:07

Sample Depth: 1.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *1 | 49.9 | mg/Kg | | 11/23/22 15:04 | 11/24/22 02:31 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | mg/Kg | | 11/23/22 15:04 | 11/24/22 02:31 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/23/22 15:04 | 11/24/22 02:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 116 | | 70 - 130 | | | 11/23/22 15:04 | 11/24/22 02:31 | 1 |
| o-Terphenyl | 127 | | 70 - 130 | | | 11/23/22 15:04 | 11/24/22 02:31 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 34.6 | | 5.01 | mg/Kg | | | 11/24/22 00:00 | 1 |

Client Sample ID: FS70A

Lab Sample ID: 890-3533-4

Date Collected: 11/18/22 09:25

Matrix: Solid

Date Received: 11/18/22 13:07

Sample Depth: 1.5'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:29 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:29 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:29 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:29 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:29 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 63 | S1- | 70 - 130 | | | 11/28/22 12:53 | 11/29/22 06:29 | 1 |
| 1,4-Difluorobenzene (Surr) | 101 | | 70 - 130 | | | 11/28/22 12:53 | 11/29/22 06:29 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/29/22 09:34 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/28/22 11:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *1 | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/24/22 02:53 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/24/22 02:53 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/24/22 02:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 117 | | 70 - 130 | | | 11/23/22 15:04 | 11/24/22 02:53 | 1 |
| o-Terphenyl | 126 | | 70 - 130 | | | 11/23/22 15:04 | 11/24/22 02:53 | 1 |

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Client Sample Results

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Client Sample ID: FS70A

Lab Sample ID: 890-3533-4

Date Collected: 11/18/22 09:25

Matrix: Solid

Date Received: 11/18/22 13:07

Sample Depth: 1.5'

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 80.6 | | 4.98 | mg/Kg | | | 11/24/22 00:07 | 1 |

Client Sample ID: FS71A

Lab Sample ID: 890-3533-5

Date Collected: 11/18/22 09:30

Matrix: Solid

Date Received: 11/18/22 13:07

Sample Depth: 1.5'

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 | | 11/28/22 12:53 | 11/29/22 06:49 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:49 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:49 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:49 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:49 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 11/28/22 12:53 | 11/29/22 06:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 79 | | 70 - 130 | | | 11/28/22 12:53 | 11/29/22 06:49 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | 11/28/22 12:53 | 11/29/22 06:49 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 11/29/22 09:34 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/28/22 11:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *1 | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/24/22 03:14 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/24/22 03:14 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/24/22 03:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 119 | | 70 - 130 | | | 11/23/22 15:04 | 11/24/22 03:14 | 1 |
| o-Terphenyl | 130 | | 70 - 130 | | | 11/23/22 15:04 | 11/24/22 03:14 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 58.7 | | 5.03 | mg/Kg | | | 11/24/22 00:13 | 1 |

Surrogate Summary

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 880-21941-A-1-D MS | Matrix Spike | 76 | 105 |
| 880-21941-A-1-E MSD | Matrix Spike Duplicate | 69 S1- | 102 |
| 890-3533-1 | FS67A | 63 S1- | 91 |
| 890-3533-2 | FS68A | 68 S1- | 112 |
| 890-3533-3 | FS69A | 64 S1- | 104 |
| 890-3533-4 | FS70A | 63 S1- | 101 |
| 890-3533-5 | FS71A | 79 | 105 |
| LCS 880-40466/1-A | Lab Control Sample | 84 | 111 |
| LCSD 880-40466/2-A | Lab Control Sample Dup | 82 | 94 |
| MB 880-40412/5-A | Method Blank | 74 | 110 |
| MB 880-40466/5-A | Method Blank | 73 | 97 |

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|--|-------------------|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 890-3525-A-1-C MS | Matrix Spike | 145 S1+ | 159 S1+ |
| 890-3525-A-1-D MSD | Matrix Spike Duplicate | 147 S1+ | 164 S1+ |
| 890-3533-1 | FS67A | 100 | 116 |
| 890-3533-2 | FS68A | 100 | 116 |
| 890-3533-3 | FS69A | 116 | 127 |
| 890-3533-4 | FS70A | 117 | 126 |
| 890-3533-5 | FS71A | 119 | 130 |
| LCS 880-40343/2-A | Lab Control Sample | 175 S1+ | 217 S1+ |
| LCSD 880-40343/3-A | Lab Control Sample Dup | 200 S1+ | 240 S1+ |
| MB 880-40343/1-A | Method Blank | 155 S1+ | 184 S1+ |

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40412/5-A
Matrix: Solid
Analysis Batch: 40361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40412

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 74 | | 70 - 130 | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| 1,4-Difluorobenzene (Surr) | 110 | | 70 - 130 | 11/28/22 10:23 | 11/28/22 12:29 | 1 |

Lab Sample ID: MB 880-40466/5-A
Matrix: Solid
Analysis Batch: 40361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40466

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 73 | | 70 - 130 | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | 11/28/22 12:53 | 11/29/22 00:05 | 1 |

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

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40466

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

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

Lab Sample ID: LCSD 880-40466/2-A
Matrix: Solid
Analysis Batch: 40361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40466

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene | 0.100 | 0.08207 | | mg/Kg | | 82 | 70 - 130 | 24 | 35 |

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QC Sample Results

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

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

Lab Sample ID: LCSD 880-40466/2-A
Matrix: Solid
Analysis Batch: 40361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40466

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec | | RPD | Limit |
|-----------------------------|------------------|------------------|----------------|-------|---|------|----------|-----|-----|-------|
| | | | | | | | Limits | RPD | | |
| Toluene | 0.100 | 0.1103 | | mg/Kg | | 110 | 70 - 130 | 9 | 35 | |
| Ethylbenzene | 0.100 | 0.1123 | | mg/Kg | | 112 | 70 - 130 | 20 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.2024 | | mg/Kg | | 101 | 70 - 130 | 24 | 35 | |
| o-Xylene | 0.100 | 0.09966 | | mg/Kg | | 100 | 70 - 130 | 22 | 35 | |
| | | LCSD | LCSD | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | | | | |

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

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec | | RPD | Limit |
|-----------------------------|------------------|------------------|---------------|-----------|--------------|-------|---|------|----------|-----|-----|-------|
| | | | | | | | | | Limits | RPD | | |
| Benzene | <0.00200 | U F1 | 0.0996 | 0.03139 | F1 | mg/Kg | | 32 | 70 - 130 | | | |
| Toluene | <0.00200 | U F1 | 0.0996 | 0.02826 | F1 | mg/Kg | | 28 | 70 - 130 | | | |
| Ethylbenzene | <0.00200 | U F1 | 0.0996 | 0.02733 | F1 | mg/Kg | | 27 | 70 - 130 | | | |
| m-Xylene & p-Xylene | <0.00401 | U F1 | 0.199 | 0.04741 | F1 | mg/Kg | | 24 | 70 - 130 | | | |
| o-Xylene | <0.00200 | U F1 | 0.0996 | 0.02598 | F1 | mg/Kg | | 26 | 70 - 130 | | | |
| | | MS | MS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 76 | | 70 - 130 | | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | | | | | | | |

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

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec | | RPD | Limit |
|-----------------------------|------------------|------------------|---------------|------------|---------------|-------|---|------|----------|-----|-----|-------|
| | | | | | | | | | Limits | RPD | | |
| Benzene | <0.00200 | U F1 | 0.0996 | 0.03831 | F1 | mg/Kg | | 38 | 70 - 130 | 20 | 35 | |
| Toluene | <0.00200 | U F1 | 0.0996 | 0.02919 | F1 | mg/Kg | | 29 | 70 - 130 | 3 | 35 | |
| Ethylbenzene | <0.00200 | U F1 | 0.0996 | 0.02670 | F1 | mg/Kg | | 27 | 70 - 130 | 2 | 35 | |
| m-Xylene & p-Xylene | <0.00401 | U F1 | 0.199 | 0.04101 | F1 | mg/Kg | | 21 | 70 - 130 | 14 | 35 | |
| o-Xylene | <0.00200 | U F1 | 0.0996 | 0.02211 | F1 | mg/Kg | | 22 | 70 - 130 | 16 | 35 | |
| | | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 69 | S1- | 70 - 130 | | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | | | | | | | |

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

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

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40343

| 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 | | 11/23/22 15:04 | 11/23/22 20:46 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

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

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

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40343

| 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 | | 11/23/22 15:04 | 11/23/22 20:46 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/23/22 20:46 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1-Chlorooctane | 155 | S1+ | 70 - 130 | 11/23/22 15:04 | 11/23/22 20:46 | 1 |
| o-Terphenyl | 184 | S1+ | 70 - 130 | 11/23/22 15:04 | 11/23/22 20:46 | 1 |

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

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40343

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|------|-----|----------|-------------|
| | | | | | | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1030 | mg/Kg | | 103 | 70 - 130 | |

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

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

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40343

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| | | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1169 | | mg/Kg | | 117 | 70 - 130 | 13 | 20 |

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

Lab Sample ID: 890-3525-A-1-C MS
Matrix: Solid
Analysis Batch: 40262

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 40343

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

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

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QC Sample Results

Client: Ensolium
 Project/Site: EMSU B Facility

Job ID: 890-3533-1
 SDG: 03E2077002

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

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

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 40343

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|------------------|----------------------|-------------|---------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *1 | 998 | 1103 | | mg/Kg | | 111 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 | 998 | 1360 | F1 | mg/Kg | | 136 | 70 - 130 | 4 | 20 |
| Surrogate | %Recovery | MSD Qualifier | MSD | Limits | | | | | | | |
| 1-Chlorooctane | 147 | S1+ | | 70 - 130 | | | | | | | |
| o-Terphenyl | 164 | S1+ | | 70 - 130 | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40011/1-A
 Matrix: Solid
 Analysis Batch: 40326

Client Sample ID: Method Blank
 Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/23/22 22:20 | 1 |

Lab Sample ID: LCS 880-40011/2-A
 Matrix: Solid
 Analysis Batch: 40326

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250 | 257.4 | | mg/Kg | | 103 | 90 - 110 |

Lab Sample ID: LCSD 880-40011/3-A
 Matrix: Solid
 Analysis Batch: 40326

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250 | 257.7 | | mg/Kg | | 103 | 90 - 110 | 0 | 20 |

Lab Sample ID: 890-3533-5 MS
 Matrix: Solid
 Analysis Batch: 40326

Client Sample ID: FS71A
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 58.7 | | 252 | 316.2 | | mg/Kg | | 102 | 90 - 110 |

Lab Sample ID: 890-3533-5 MSD
 Matrix: Solid
 Analysis Batch: 40326

Client Sample ID: FS71A
 Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 58.7 | | 252 | 316.9 | | mg/Kg | | 103 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

GC VOA

Analysis Batch: 40361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3533-1 | FS67A | Total/NA | Solid | 8021B | 40466 |
| 890-3533-2 | FS68A | Total/NA | Solid | 8021B | 40466 |
| 890-3533-3 | FS69A | Total/NA | Solid | 8021B | 40466 |
| 890-3533-4 | FS70A | Total/NA | Solid | 8021B | 40466 |
| 890-3533-5 | FS71A | Total/NA | Solid | 8021B | 40466 |
| MB 880-40412/5-A | Method Blank | Total/NA | Solid | 8021B | 40412 |
| MB 880-40466/5-A | Method Blank | Total/NA | Solid | 8021B | 40466 |
| LCS 880-40466/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40466 |
| LCSD 880-40466/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40466 |
| 880-21941-A-1-D MS | Matrix Spike | Total/NA | Solid | 8021B | 40466 |
| 880-21941-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 40466 |

Prep Batch: 40412

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-40412/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 40466

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3533-1 | FS67A | Total/NA | Solid | 5035 | |
| 890-3533-2 | FS68A | Total/NA | Solid | 5035 | |
| 890-3533-3 | FS69A | Total/NA | Solid | 5035 | |
| 890-3533-4 | FS70A | Total/NA | Solid | 5035 | |
| 890-3533-5 | FS71A | Total/NA | Solid | 5035 | |
| MB 880-40466/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40466/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40466/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-21941-A-1-D MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-21941-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 40572

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3533-1 | FS67A | Total/NA | Solid | Total BTEX | |
| 890-3533-2 | FS68A | Total/NA | Solid | Total BTEX | |
| 890-3533-3 | FS69A | Total/NA | Solid | Total BTEX | |
| 890-3533-4 | FS70A | Total/NA | Solid | Total BTEX | |
| 890-3533-5 | FS71A | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 40262

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3533-1 | FS67A | Total/NA | Solid | 8015B NM | 40343 |
| 890-3533-2 | FS68A | Total/NA | Solid | 8015B NM | 40343 |
| 890-3533-3 | FS69A | Total/NA | Solid | 8015B NM | 40343 |
| 890-3533-4 | FS70A | Total/NA | Solid | 8015B NM | 40343 |
| 890-3533-5 | FS71A | Total/NA | Solid | 8015B NM | 40343 |
| MB 880-40343/1-A | Method Blank | Total/NA | Solid | 8015B NM | 40343 |
| LCS 880-40343/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 40343 |
| LCSD 880-40343/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 40343 |
| 890-3525-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 40343 |
| 890-3525-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 40343 |

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QC Association Summary

Client: Ensolum
 Project/Site: EMSU B Facility

Job ID: 890-3533-1
 SDG: 03E2077002

GC Semi VOA

Prep Batch: 40343

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3533-1 | FS67A | Total/NA | Solid | 8015NM Prep | |
| 890-3533-2 | FS68A | Total/NA | Solid | 8015NM Prep | |
| 890-3533-3 | FS69A | Total/NA | Solid | 8015NM Prep | |
| 890-3533-4 | FS70A | Total/NA | Solid | 8015NM Prep | |
| 890-3533-5 | FS71A | Total/NA | Solid | 8015NM Prep | |
| MB 880-40343/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-40343/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-40343/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3525-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3525-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 40450

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3533-1 | FS67A | Total/NA | Solid | 8015 NM | |
| 890-3533-2 | FS68A | Total/NA | Solid | 8015 NM | |
| 890-3533-3 | FS69A | Total/NA | Solid | 8015 NM | |
| 890-3533-4 | FS70A | Total/NA | Solid | 8015 NM | |
| 890-3533-5 | FS71A | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 40011

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3533-1 | FS67A | Soluble | Solid | DI Leach | |
| 890-3533-2 | FS68A | Soluble | Solid | DI Leach | |
| 890-3533-3 | FS69A | Soluble | Solid | DI Leach | |
| 890-3533-4 | FS70A | Soluble | Solid | DI Leach | |
| 890-3533-5 | FS71A | Soluble | Solid | DI Leach | |
| MB 880-40011/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-40011/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-40011/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3533-5 MS | FS71A | Soluble | Solid | DI Leach | |
| 890-3533-5 MSD | FS71A | Soluble | Solid | DI Leach | |

Analysis Batch: 40326

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3533-1 | FS67A | Soluble | Solid | 300.0 | 40011 |
| 890-3533-2 | FS68A | Soluble | Solid | 300.0 | 40011 |
| 890-3533-3 | FS69A | Soluble | Solid | 300.0 | 40011 |
| 890-3533-4 | FS70A | Soluble | Solid | 300.0 | 40011 |
| 890-3533-5 | FS71A | Soluble | Solid | 300.0 | 40011 |
| MB 880-40011/1-A | Method Blank | Soluble | Solid | 300.0 | 40011 |
| LCS 880-40011/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 40011 |
| LCSD 880-40011/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 40011 |
| 890-3533-5 MS | FS71A | Soluble | Solid | 300.0 | 40011 |
| 890-3533-5 MSD | FS71A | Soluble | Solid | 300.0 | 40011 |

Lab Chronicle

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Client Sample ID: FS67A

Lab Sample ID: 890-3533-1

Date Collected: 11/18/22 09:10

Matrix: Solid

Date Received: 11/18/22 13:07

| Prep 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 | 40466 | 11/28/22 12:53 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40361 | 11/29/22 05:27 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40572 | 11/29/22 09:34 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40450 | 11/28/22 11:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 40343 | 11/23/22 15:04 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40262 | 11/24/22 01:27 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 40011 | 11/20/22 12:23 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40326 | 11/23/22 23:46 | CH | EET MID |

Client Sample ID: FS68A

Lab Sample ID: 890-3533-2

Date Collected: 11/18/22 09:15

Matrix: Solid

Date Received: 11/18/22 13:07

| 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 | 40466 | 11/28/22 12:53 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40361 | 11/29/22 05:48 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40572 | 11/29/22 09:34 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40450 | 11/28/22 11:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 40343 | 11/23/22 15:04 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40262 | 11/24/22 01:48 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 40011 | 11/20/22 12:23 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40326 | 11/23/22 23:53 | CH | EET MID |

Client Sample ID: FS69A

Lab Sample ID: 890-3533-3

Date Collected: 11/18/22 09:20

Matrix: Solid

Date Received: 11/18/22 13:07

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 40466 | 11/28/22 12:53 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40361 | 11/29/22 06:08 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40572 | 11/29/22 09:34 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40450 | 11/28/22 11:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 40343 | 11/23/22 15:04 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40262 | 11/24/22 02:31 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 40011 | 11/20/22 12:23 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40326 | 11/24/22 00:00 | CH | EET MID |

Client Sample ID: FS70A

Lab Sample ID: 890-3533-4

Date Collected: 11/18/22 09:25

Matrix: Solid

Date Received: 11/18/22 13:07

| Prep 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 | 40466 | 11/28/22 12:53 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40361 | 11/29/22 06:29 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40572 | 11/29/22 09:34 | SM | EET MID |

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Lab Chronicle

Client: Ensolum
 Project/Site: EMSU B Facility

Job ID: 890-3533-1
 SDG: 03E2077002

Client Sample ID: FS70A

Lab Sample ID: 890-3533-4

Date Collected: 11/18/22 09:25

Matrix: Solid

Date Received: 11/18/22 13:07

| 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 | | | 40450 | 11/28/22 11:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 40343 | 11/23/22 15:04 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40262 | 11/24/22 02:53 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 40011 | 11/20/22 12:23 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40326 | 11/24/22 00:07 | CH | EET MID |

Client Sample ID: FS71A

Lab Sample ID: 890-3533-5

Date Collected: 11/18/22 09:30

Matrix: Solid

Date Received: 11/18/22 13:07

| 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 | 40466 | 11/28/22 12:53 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40361 | 11/29/22 06:49 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40572 | 11/29/22 09:34 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40450 | 11/28/22 11:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 40343 | 11/23/22 15:04 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40262 | 11/24/22 03:14 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 40011 | 11/20/22 12:23 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40326 | 11/24/22 00:13 | CH | EET MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-22-24 | 06-30-23 |

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

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

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

Method Summary

Client: Ensolum
 Project/Site: EMSU B Facility

Job ID: 890-3533-1
 SDG: 03E2077002

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: Ensolum
Project/Site: EMSU B Facility

Job ID: 890-3533-1
SDG: 03E2077002

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3533-1 | FS67A | Solid | 11/18/22 09:10 | 11/18/22 13:07 | 1.5' |
| 890-3533-2 | FS68A | Solid | 11/18/22 09:15 | 11/18/22 13:07 | 1.5' |
| 890-3533-3 | FS69A | Solid | 11/18/22 09:20 | 11/18/22 13:07 | 1.5' |
| 890-3533-4 | FS70A | Solid | 11/18/22 09:25 | 11/18/22 13:07 | 1.5' |
| 890-3533-5 | FS71A | Solid | 11/18/22 09:30 | 11/18/22 13:07 | 1.5' |

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



Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com

Page _____ of _____

| | | | |
|------------------|-------------------------|-------------------------|------------------------|
| Project Manager: | Tacoma Morrissey | Bill to: (if different) | Tacoma Morrissey |
| Company Name: | Ensolum | Company Name: | Ensolum |
| Address: | 3122 National Parks Hwy | Address: | |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | |
| Phone: | 303-887-2946 | Email: | tmorrissey@ensolum.com |

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

| | | | | | |
|--------------------------|---|---|---|------------|--|
| Project Name: | EMSU B Facility | Turn Around | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | Pres. Code | |
| Project Number: | 03E2077002 | Due Date: | | | |
| Project Location: | 32,5649393, -103,3183064 | TAT starts the day received by the lab, if received by 4:30pm | | | |
| Sampler's Name: | Kase Parker | Wet Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |
| PO #: | | Thermometer ID: | 1111-007 | | |
| SAMPLE RECEIPT | Temp Blank: | Correction Factor: | -0.0 | | |
| Samples Received Intact: | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Temperature Reading: | 9.0 | | |
| Cooler Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Corrected Temperature: | 9.0 | | |
| Sample Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | | | | |
| Total Containers: | | | | | |



| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | ANALYSIS REQUEST | | Preservative Codes |
|-----------------------|--------|--------------|--------------|-------|-----------|-----------|-------------------------------------|-------------------------------------|--|
| | | | | | | | CHLORIDES (EPA: 300.0) | TPH (8015) | |
| FS67A | S | 11/18/2022 | 9:10 | 1.5' | Comp | 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | None: NO DI Water: H ₂ O |
| FS68A | S | 11/18/2022 | 9:15 | 1.5' | Comp | 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Cool: Cool HCL: HC H ₂ SO ₄ : H ₂ |
| FS69A | S | 11/18/2022 | 9:20 | 1.5' | Comp | 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | H ₃ PO ₄ : HP NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NASO ₃ |
| FS70A | S | 11/18/2022 | 9:25 | 1.5' | Comp | 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC |
| FS71A | S | 11/18/2022 | 9:30 | 1.5' | Comp | 1 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245, 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum penalty 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> | 11/18/22 1307 | | | |
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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3533-1

SDG Number: 03E2077002

Login Number: 3533

List Number: 1

Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3533-1

SDG Number: 03E2077002

Login Number: 3533

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-257-1
Laboratory Sample Delivery Group: TE012919246
Client Project/Site: PLU 89 SWD Line

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Dan Moir

Authorized for release by:
3/8/2021 6:22:50 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Laboratory Job ID: 890-257-1
SDG: TE012919246

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Job ID: 890-257-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-257-1

Receipt

The samples were received on 3/4/2021 1:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

Receipt Exceptions

The following samples analyzed for method <BTEX 8021> were received and analyzed from an unpreserved bulk soil jar: PH01 (890-257-1), PH01 A (890-257-2), PH02 (890-257-3), PH02 A (890-257-4), SW44 (890-257-5), SW45 (890-257-6), PH03 (890-257-7), PH03 A (890-257-8), BH05 A (890-257-9) and BH06 A (890-257-10).
BTEX 8021

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246Client Sample ID: PH01
Date Collected: 03/04/21 08:45
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-1
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 79 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| 4-Bromofluorobenzene | 116 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 12:03 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 10.3 | | 4.98 | | mg/kg | | 03/06/21 14:20 | 03/06/21 16:51 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 22:17 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 22:17 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 22:17 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 22:17 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 135 | 03/06/21 11:00 | 03/06/21 22:17 | 1 |
| o-Terphenyl | 81 | | 70 - 135 | 03/06/21 11:00 | 03/06/21 22:17 | 1 |

Client Sample ID: PH01 A
Date Collected: 03/04/21 09:00
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-2
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 100 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| 4-Bromofluorobenzene | 107 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 12:23 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | <4.96 | U | 4.96 | | mg/kg | | 03/06/21 14:20 | 03/06/21 16:57 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246Client Sample ID: PH01 A
Date Collected: 03/04/21 09:00
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-2
Matrix: Solid

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 135 | | | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |
| o-Terphenyl | 86 | | 70 - 135 | | | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |

Client Sample ID: PH02
Date Collected: 03/04/21 09:10
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-3
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Total Xylenes | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 98 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| 4-Bromofluorobenzene | 111 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 94.1 | | 4.95 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:14 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 135 | | | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| o-Terphenyl | 86 | | 70 - 135 | | | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |

Client Sample ID: PH02 A
Date Collected: 03/04/21 09:25
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-4
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246

Client Sample ID: PH02 A

Lab Sample ID: 890-257-4

Date Collected: 03/04/21 09:25

Matrix: Solid

Date Received: 03/04/21 13:18

Method: BTEX 8021 - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| Total Xylenes | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 92 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| 4-Bromofluorobenzene | 113 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 17.4 | | 5.02 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:20 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 135 | | | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| o-Terphenyl | 84 | | 70 - 135 | | | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |

Client Sample ID: SW44

Lab Sample ID: 890-257-5

Date Collected: 03/04/21 09:40

Matrix: Solid

Date Received: 03/04/21 13:18

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Total Xylenes | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 95 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| 4-Bromofluorobenzene | 108 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 123 | | 5.05 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:26 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:22 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:22 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:22 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:22 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246Client Sample ID: SW44
Date Collected: 03/04/21 09:40
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-5
Matrix: Solid

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 88 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 00:22 | 1 |
| o-Terphenyl | 90 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 00:22 | 1 |

Client Sample ID: SW45
Date Collected: 03/04/21 11:15
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-6
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 87 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| 4-Bromofluorobenzene | 108 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 13:45 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 22.2 | | 5.05 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:31 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:43 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:43 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:43 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 84 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 00:43 | 1 |
| o-Terphenyl | 85 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 00:43 | 1 |

Client Sample ID: PH03
Date Collected: 03/04/21 10:15
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-7
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 92 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 14:05 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246Client Sample ID: PH03
Date Collected: 03/04/21 10:15
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-7
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 104 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 14:05 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 16.5 | | 5.05 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:37 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:04 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:04 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:04 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:04 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:04 | 1 |
| o-Terphenyl | 80 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:04 | 1 |

Client Sample ID: PH03 A
Date Collected: 03/04/21 10:30
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-8
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| Total Xylenes | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 93 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| 4-Bromofluorobenzene | 103 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 14:26 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 117 | | 4.96 | | mg/kg | | 03/06/21 14:30 | 03/06/21 14:42 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:25 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:25 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:25 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 102 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:25 | 1 |
| o-Terphenyl | 102 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:25 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Client Sample ID: BH05 A
Date Collected: 03/04/21 10:05
Date Received: 03/04/21 13:18

Lab Sample ID: 890-257-9
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U X | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| o-Xylene | <0.00199 | U X | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| Toluene | <0.00199 | U X | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| Total Xylenes | <0.00199 | U | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 102 | | 70 - 130 | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| 4-Bromofluorobenzene | 101 | | 70 - 130 | 03/05/21 16:30 | 03/05/21 21:28 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 21.8 | | 4.97 | | mg/kg | | 03/06/21 14:30 | 03/06/21 14:57 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:46 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:46 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:46 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 84 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:46 | 1 |
| o-Terphenyl | 84 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:46 | 1 |

Client Sample ID: BH06 A
Date Collected: 03/04/21 10:40
Date Received: 03/04/21 13:18

Lab Sample ID: 890-257-10
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| Total Xylenes | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 103 | | 70 - 130 | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| 4-Bromofluorobenzene | 112 | | 70 - 130 | 03/05/21 16:30 | 03/05/21 21:48 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 361 | | 5.01 | | mg/kg | | 03/06/21 14:30 | 03/06/21 15:02 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 02:07 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
 SDG: TE012919246

Client Sample ID: BH06 A
Date Collected: 03/04/21 10:40
Date Received: 03/04/21 13:18

Lab Sample ID: 890-257-10
Matrix: Solid

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 02:07 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 02:07 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 02:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 97 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 02:07 | 1 |
| o-Terphenyl | 98 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 02:07 | 1 |

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method

Matrix: SOIL

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) |
|---------------|------------------------|-----------------|
| 690433-009 S | Matrix Spike | 103 |
| 690433-009 SD | Matrix Spike Duplicate | 105 |
| 7722663-1-BKS | Lab Control Sample | 90 |
| 7722663-1-BLK | Method Blank | 104 |
| 7722663-1-BSD | Lab Control Sample Dup | 101 |
| 7722710-1-BKS | Lab Control Sample | 104 |
| 7722710-1-BLK | Method Blank | 97 |
| 7722710-1-BSD | Lab Control Sample Dup | 96 |

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method: BTEX 8021 - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) | DFBZ (70-130) |
|---------------|------------------|-----------------|------------------|
| 890-257-1 | PH01 | 116 | 79 |
| 890-257-2 | PH01 A | 107 | 100 |
| 890-257-3 | PH02 | 111 | 98 |
| 890-257-4 | PH02 A | 113 | 92 |
| 890-257-5 | SW44 | 108 | 95 |
| 890-257-6 | SW45 | 108 | 87 |
| 890-257-7 | PH03 | 104 | 92 |
| 890-257-8 | PH03 A | 103 | 93 |
| 890-257-9 | BH05 A | 101 | 102 |
| 890-257-10 | BH06 A | 112 | 103 |

Surrogate Legend

BFB = 4-Bromofluorobenzene

DFBZ = 1,4-Difluorobenzene

Method: TPH 8015_NM_MOD - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO (70-135) | OTPH (70-135) |
|---------------|------------------|-----------------|------------------|
| 890-257-1 | PH01 | 82 | 81 |
| 890-257-2 | PH01 A | 85 | 86 |
| 890-257-3 | PH02 | 85 | 86 |
| 890-257-4 | PH02 A | 85 | 84 |
| 890-257-5 | SW44 | 88 | 90 |
| 890-257-6 | SW45 | 84 | 85 |
| 890-257-7 | PH03 | 82 | 80 |
| 890-257-8 | PH03 A | 102 | 102 |
| 890-257-9 | BH05 A | 84 | 84 |
| 890-257-10 | BH06 A | 97 | 98 |

Surrogate Legend

1CO = 1-Chlorooctane

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line
OTPH = o-Terphenyl

Job ID: 890-257-1
SDG: TE012919246

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- 10
- 11
- 12
- 13

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method

Lab Sample ID: 7722663-1-BLK
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Benzene | <.002 | U | .002 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| Ethylbenzene | <.002 | U | .002 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| m,p-Xylenes | <.004 | U | .004 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| o-Xylene | <.002 | U | .002 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| Toluene | <.002 | U | .002 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene | 104 | | 70 - 130 | | | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |

Lab Sample ID: 7722663-1-BKS
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | %Rec. |
|----------------------|------------------|------------------|---------------|-------|---|------|----------|-------|
| Benzene | .1 | 0.0989 | | mg/kg | | 99 | 70 - 130 | |
| Ethylbenzene | .1 | 0.0932 | | mg/kg | | 93 | 71 - 129 | |
| m,p-Xylenes | .2 | 0.183 | | mg/kg | | 92 | 70 - 135 | |
| o-Xylene | .1 | 0.0938 | | mg/kg | | 94 | 71 - 133 | |
| Toluene | .1 | 0.104 | | mg/kg | | 104 | 70 - 130 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | |
| 4-Bromofluorobenzene | 90 | | 70 - 130 | | | | | |

Lab Sample ID: 7722663-1-BSD
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------------------|------------------|------------------|----------------|-------|---|------|----------|-----|-------|
| Benzene | .1 | 0.0877 | | mg/kg | | 88 | 70 - 130 | 12 | 35 |
| Ethylbenzene | .1 | 0.0819 | | mg/kg | | 82 | 71 - 129 | 13 | 35 |
| m,p-Xylenes | .2 | 0.160 | | mg/kg | | 80 | 70 - 135 | 13 | 35 |
| o-Xylene | .1 | 0.0833 | | mg/kg | | 83 | 71 - 133 | 12 | 35 |
| Toluene | .1 | 0.0914 | | mg/kg | | 91 | 70 - 130 | 13 | 35 |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene | 101 | | 70 - 130 | | | | | | |

Lab Sample ID: 690433-009 S
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Benzene | <.002 | | .0998 | 0.139 | | mg/kg | | 139 | 70 - 130 |
| Ethylbenzene | <.002 | | .0998 | 0.119 | | mg/kg | | 119 | 71 - 129 |
| m,p-Xylenes | <.00399 | | .2 | 0.231 | | mg/kg | | 116 | 70 - 135 |
| o-Xylene | <.002 | | .0998 | 0.125 | | mg/kg | | 125 | 71 - 133 |
| Toluene | <.002 | | .0998 | 0.131 | | mg/kg | | 131 | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 690433-009 S
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152745_P

| Surrogate | MS MS | | Limits |
|----------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene | 103 | | 70 - 130 |

Lab Sample ID: 690433-009 SD
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD MSD | | Unit | D | %Rec | %Rec. | | RPD | Limit |
|--------------|---------------|------------------|-------------|---------|-----------|-------|---|------|----------|-----|-----|-------|
| | | | | Result | Qualifier | | | | Limits | RPD | | |
| Benzene | <.002 | | .0998 | 0.143 | | mg/kg | | 143 | 70 - 130 | 3 | 35 | |
| Ethylbenzene | <.002 | | .0998 | 0.128 | | mg/kg | | 128 | 71 - 129 | 7 | 35 | |
| m,p-Xylenes | <.00399 | | .2 | 0.250 | | mg/kg | | 125 | 70 - 135 | 8 | 35 | |
| o-Xylene | <.002 | | .0998 | 0.133 | | mg/kg | | 133 | 71 - 133 | 6 | 35 | |
| Toluene | <.002 | | .0998 | 0.139 | | mg/kg | | 139 | 70 - 130 | 6 | 35 | |

| Surrogate | MSD MSD | | Limits |
|----------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene | 105 | | 70 - 130 |

Lab Sample ID: 7722710-1-BLK
Matrix: SOIL
Analysis Batch: 3152798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152798_P

| Analyte | BLANK BLANK | | RL | MDL | Unit | D | Prepared | | Analyzed | | Dil Fac |
|--------------|-------------|-----------|------|-----|-------|---|----------------|----------------|----------|---|---------|
| | Result | Qualifier | | | | | Prepared | Analyzed | | | |
| Benzene | <.002 | U | .002 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | | 1 | |
| Ethylbenzene | <.002 | U | .002 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | | 1 | |
| m,p-Xylenes | <.004 | U | .004 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | | 1 | |
| o-Xylene | <.002 | U | .002 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | | 1 | |
| Toluene | <.002 | U | .002 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | | 1 | |

| Surrogate | BLANK BLANK | | Limits | Prepared | | Analyzed | | Dil Fac |
|----------------------|-------------|-----------|----------|----------------|----------------|----------|---|---------|
| | %Recovery | Qualifier | | Prepared | Analyzed | | | |
| 4-Bromofluorobenzene | 97 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 06:35 | | 1 | |

Lab Sample ID: 7722710-1-BKS
Matrix: SOIL
Analysis Batch: 3152798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152798_P

| Analyte | Spike Added | LCS LCS | | Unit | D | %Rec | %Rec. | |
|--------------|-------------|---------|-----------|-------|---|------|----------|-----|
| | | Result | Qualifier | | | | Limits | RPD |
| Benzene | .1 | 0.108 | | mg/kg | | 108 | 70 - 130 | |
| Ethylbenzene | .1 | 0.105 | | mg/kg | | 105 | 71 - 129 | |
| m,p-Xylenes | .2 | 0.210 | | mg/kg | | 105 | 70 - 135 | |
| o-Xylene | .1 | 0.107 | | mg/kg | | 107 | 71 - 133 | |
| Toluene | .1 | 0.0999 | | mg/kg | | 100 | 70 - 130 | |

| Surrogate | LCS LCS | | Limits |
|----------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene | 104 | | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 7722710-1-BSD
Matrix: SOIL
Analysis Batch: 3152798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152798_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|--------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Benzene | .1 | 0.0969 | | mg/kg | | 97 | 70 - 130 | 11 | 35 |
| Ethylbenzene | .1 | 0.0922 | | mg/kg | | 92 | 71 - 129 | 13 | 35 |
| m,p-Xylenes | .2 | 0.183 | | mg/kg | | 92 | 70 - 135 | 14 | 35 |
| o-Xylene | .1 | 0.0934 | | mg/kg | | 93 | 71 - 133 | 14 | 35 |
| Toluene | .1 | 0.0902 | | mg/kg | | 90 | 70 - 130 | 10 | 35 |

| Surrogate | %Recovery | LCS Qualifier | Limits |
|----------------------|-----------|---------------|----------|
| 4-Bromofluorobenzene | 96 | | 70 - 130 |

Method: CHLORIDE E300 - General Subcontract Method

Lab Sample ID: 7722684-1-BLK
Matrix: SOIL
Analysis Batch: 3152764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152764_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Chloride | <5 | U | 5 | | mg/kg | | 03/06/21 14:20 | 03/06/21 14:55 | 1 |

Lab Sample ID: 7722684-1-BKS
Matrix: SOIL
Analysis Batch: 3152764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152764_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|-------|---|------|----------|
| Chloride | 250 | 252 | | mg/kg | | 101 | 80 - 120 |

Lab Sample ID: 7722684-1-BSD
Matrix: SOIL
Analysis Batch: 3152764

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152764_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Chloride | 250 | 253 | | mg/kg | | 101 | 80 - 120 | 0 | 20 |

Lab Sample ID: 7722685-1-BLK
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Chloride | <5 | U | 5 | | mg/kg | | 03/06/21 14:30 | 03/06/21 14:27 | 1 |

Lab Sample ID: 7722685-1-BKS
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|-------|---|------|----------|
| Chloride | 250 | 251 | | mg/kg | | 100 | 80 - 120 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: CHLORIDE E300 - General Subcontract Method (Continued)

Lab Sample ID: 7722685-1-BSD
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250 | 251 | | mg/kg | | 100 | 80 - 120 | 0 | 20 |

Lab Sample ID: 690433-008 S
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 117 | | 248 | 361 | | mg/kg | | 98 | 80 - 120 |

Lab Sample ID: 690433-008 SD
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 117 | | 248 | 361 | | mg/kg | | 98 | 80 - 120 | 0 | 20 |

Method: TPH 8015_NM_MOD - General Subcontract Method

Lab Sample ID: 7722756-1-BLK
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50 | U | 50 | | mg/kg | | 03/06/21 11:00 | 03/06/21 21:13 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50 | U | 50 | | mg/kg | | 03/06/21 11:00 | 03/06/21 21:13 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50 | U | 50 | | mg/kg | | 03/06/21 11:00 | 03/06/21 21:13 | 1 |

Lab Sample ID: 7722756-1-BKS
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (DRO) | 1000 | 977 | | mg/kg | | 98 | 70 - 135 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 1010 | | mg/kg | | 101 | 70 - 135 |

Lab Sample ID: 7722756-1-BSD
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO) | 1000 | 987 | | mg/kg | | 99 | 70 - 135 | 1 | 20 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 1030 | | mg/kg | | 103 | 70 - 135 | 2 | 20 |

Lab Sample ID: 690433-001 S
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Diesel Range Organics (DRO) | <50 | | 999 | 881 | | mg/kg | | 88 | 70 - 135 |

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
 SDG: TE012919246

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Lab Sample ID: 690433-001 S
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Hydrocarbons (GRO) | <50 | | 999 | 914 | | mg/kg | | 91 | 70 - 135 |

Lab Sample ID: 690433-001 SD
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO) | <50 | | 1000 | 886 | | mg/kg | | 89 | 70 - 135 | 1 | 20 |
| Gasoline Range Hydrocarbons (GRO) | <50 | | 1000 | 918 | | mg/kg | | 92 | 70 - 135 | 0 | 20 |

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Subcontract

Analysis Batch: 3152745

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------|------------|
| 890-257-9 | BH05 A | Total/NA | Solid | BTEX 8021 | 3152745_P |
| 890-257-10 | BH06 A | Total/NA | Solid | BTEX 8021 | 3152745_P |
| 7722663-1-BLK | Method Blank | Total/NA | SOIL | BTEX 8021 | 3152745_P |
| 7722663-1-BKS | Lab Control Sample | Total/NA | SOIL | BTEX 8021 | 3152745_P |
| 7722663-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | BTEX 8021 | 3152745_P |
| 690433-009 S | Matrix Spike | Total/NA | SOIL | BTEX 8021 | 3152745_P |
| 690433-009 SD | Matrix Spike Duplicate | Total/NA | SOIL | BTEX 8021 | 3152745_P |

Analysis Batch: 3152764

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-2 | PH01 A | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-3 | PH02 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-4 | PH02 A | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-5 | SW44 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-6 | SW45 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-7 | PH03 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 7722684-1-BLK | Method Blank | Total/NA | SOIL | CHLORIDE E300 | 3152764_P |
| 7722684-1-BKS | Lab Control Sample | Total/NA | SOIL | CHLORIDE E300 | 3152764_P |
| 7722684-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | CHLORIDE E300 | 3152764_P |

Analysis Batch: 3152765

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------------|------------|
| 890-257-8 | PH03 A | Total/NA | Solid | CHLORIDE E300 | 3152765_P |
| 890-257-9 | BH05 A | Total/NA | Solid | CHLORIDE E300 | 3152765_P |
| 890-257-10 | BH06 A | Total/NA | Solid | CHLORIDE E300 | 3152765_P |
| 7722685-1-BLK | Method Blank | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |
| 7722685-1-BKS | Lab Control Sample | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |
| 7722685-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |
| 690433-008 S | Matrix Spike | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |
| 690433-008 SD | Matrix Spike Duplicate | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |

Analysis Batch: 3152798

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-2 | PH01 A | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-3 | PH02 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-4 | PH02 A | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-5 | SW44 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-6 | SW45 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-7 | PH03 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-8 | PH03 A | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 7722710-1-BLK | Method Blank | Total/NA | SOIL | BTEX 8021 | 3152798_P |
| 7722710-1-BKS | Lab Control Sample | Total/NA | SOIL | BTEX 8021 | 3152798_P |
| 7722710-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | BTEX 8021 | 3152798_P |

Analysis Batch: 3152852

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | TPH | 3152852_P |
| 890-257-2 | PH01 A | Total/NA | Solid | TPH | 3152852_P |
| | | | | 8015_NM_MOD | |
| | | | | 8015_NM_MOD | |

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QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
 SDG: TE012919246

Subcontract (Continued)

Analysis Batch: 3152852 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|--------------------|------------|
| 890-257-3 | PH02 | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-4 | PH02 A | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-5 | SW44 | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-6 | SW45 | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-7 | PH03 | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-8 | PH03 A | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-9 | BH05 A | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-10 | BH06 A | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 7722756-1-BLK | Method Blank | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |
| 7722756-1-BKS | Lab Control Sample | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |
| 7722756-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |
| 690433-001 S | Matrix Spike | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |
| 690433-001 SD | Matrix Spike Duplicate | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |

Prep Batch: 3152745_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------|------------|
| 890-257-9 | BH05 A | Total/NA | Solid | SW5035A | |
| 890-257-10 | BH06 A | Total/NA | Solid | SW5035A | |
| 7722663-1-BLK | Method Blank | Total/NA | SOIL | SW5035A | |
| 7722663-1-BKS | Lab Control Sample | Total/NA | SOIL | SW5035A | |
| 7722663-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | SW5035A | |
| 690433-009 S | Matrix Spike | Total/NA | SOIL | SW5035A | |
| 690433-009 SD | Matrix Spike Duplicate | Total/NA | SOIL | SW5035A | |

Prep Batch: 3152764_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | E300P | |
| 890-257-2 | PH01 A | Total/NA | Solid | E300P | |
| 890-257-3 | PH02 | Total/NA | Solid | E300P | |
| 890-257-4 | PH02 A | Total/NA | Solid | E300P | |
| 890-257-5 | SW44 | Total/NA | Solid | E300P | |
| 890-257-6 | SW45 | Total/NA | Solid | E300P | |
| 890-257-7 | PH03 | Total/NA | Solid | E300P | |
| 7722684-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722684-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722684-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Subcontract

Prep Batch: 3152765_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-257-8 | PH03 A | Total/NA | Solid | E300P | |
| 890-257-9 | BH05 A | Total/NA | Solid | E300P | |
| 890-257-10 | BH06 A | Total/NA | Solid | E300P | |
| 7722685-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722685-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722685-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 690433-008 S | Matrix Spike | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 690433-008 SD | Matrix Spike Duplicate | Total/NA | SOIL | ***DEFAULT PREP*** | |

Prep Batch: 3152798_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | SW5035A | |
| 890-257-2 | PH01 A | Total/NA | Solid | SW5035A | |
| 890-257-3 | PH02 | Total/NA | Solid | SW5035A | |
| 890-257-4 | PH02 A | Total/NA | Solid | SW5035A | |
| 890-257-5 | SW44 | Total/NA | Solid | SW5035A | |
| 890-257-6 | SW45 | Total/NA | Solid | SW5035A | |
| 890-257-7 | PH03 | Total/NA | Solid | SW5035A | |
| 890-257-8 | PH03 A | Total/NA | Solid | SW5035A | |
| 7722710-1-BLK | Method Blank | Total/NA | SOIL | SW5035A | |
| 7722710-1-BKS | Lab Control Sample | Total/NA | SOIL | SW5035A | |
| 7722710-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | SW5035A | |

Prep Batch: 3152852_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | SW8015P | |
| 890-257-2 | PH01 A | Total/NA | Solid | SW8015P | |
| 890-257-3 | PH02 | Total/NA | Solid | SW8015P | |
| 890-257-4 | PH02 A | Total/NA | Solid | SW8015P | |
| 890-257-5 | SW44 | Total/NA | Solid | SW8015P | |
| 890-257-6 | SW45 | Total/NA | Solid | SW8015P | |
| 890-257-7 | PH03 | Total/NA | Solid | SW8015P | |
| 890-257-8 | PH03 A | Total/NA | Solid | SW8015P | |
| 890-257-9 | BH05 A | Total/NA | Solid | SW8015P | |
| 890-257-10 | BH06 A | Total/NA | Solid | SW8015P | |
| 7722756-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722756-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722756-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 690433-001 S | Matrix Spike | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 690433-001 SD | Matrix Spike Duplicate | Total/NA | SOIL | ***DEFAULT PREP*** | |

Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-20-21 | 06-30-21 |

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Method Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

| Method | Method Description | Protocol | Laboratory |
|-------------|--------------------|----------|------------|
| Subcontract | BTEX 8021 | None | XM |
| Subcontract | CHLORIDE E300 | None | XM |
| Subcontract | TPH 8015_NM_MOD | None | XM |

Protocol References:

None = None

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 890-257-1 | PH01 | Solid | 03/04/21 08:45 | 03/04/21 13:18 | |
| 890-257-2 | PH01 A | Solid | 03/04/21 09:00 | 03/04/21 13:18 | |
| 890-257-3 | PH02 | Solid | 03/04/21 09:10 | 03/04/21 13:18 | |
| 890-257-4 | PH02 A | Solid | 03/04/21 09:25 | 03/04/21 13:18 | |
| 890-257-5 | SW44 | Solid | 03/04/21 09:40 | 03/04/21 13:18 | |
| 890-257-6 | SW45 | Solid | 03/04/21 11:15 | 03/04/21 13:18 | |
| 890-257-7 | PH03 | Solid | 03/04/21 10:15 | 03/04/21 13:18 | |
| 890-257-8 | PH03 A | Solid | 03/04/21 10:30 | 03/04/21 13:18 | |
| 890-257-9 | BH05 A | Solid | 03/04/21 10:05 | 03/04/21 13:18 | |
| 890-257-10 | BH06 A | Solid | 03/04/21 10:40 | 03/04/21 13:18 | |

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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Chain of Custody

Work Order No: _____

www.xenco.com

Page 1 of 1

| | | | |
|------------------|-----------------------------|-------------------------|--|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littlell |
| Company Name: | WSP USA Inc, Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 522 West Mermond |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | elizabeth.naka@wsp.com, dan.moir@wsp.com |

| | | | |
|-----------------|---------------------------|-------------|-------------------------------------|
| Project Name: | PLU 89 SW D Line | Turn Around | |
| Project Number: | FEEDBACK FROM THERMISTORS | Rush: | <input checked="" type="checkbox"/> |
| P.O. Number: | | Due Date: | |
| Sampler's Name: | Elizabeth Naka | | |

| | | | |
|-----------------------|---|--------------------|----------|
| Temperature (°C): | 1.8/1.6 | Thermometer ID | |
| Received Inact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor: | 1-NM-087 |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Total Containers: | 10 |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | |

| Number of Containers | |
|----------------------|---|
| TPH (EPA 8015) | X |
| BTEX (EPA 0-8021) | X |
| Chloride (EPA 300.0) | X |

| | | |
|---|--|------------------|
| ANALYSIS REQUEST | | Work Order Notes |
| Program: <input type="checkbox"/> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Townfields <input type="checkbox"/> RC <input type="checkbox"/> perfund | | |
| State of Project: | | |
| Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PT/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV | | |
| Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: | | |



890-257 Chain of Custody

TAT starts the day received by the lab, if received by 4:30pm

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0-8021) | Chloride (EPA 300.0) | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|----------------------|----------------|-------------------|----------------------|-----------------|
| PH01 | S | 3/14/21 | 0845 | 1' | 1 | X | X | X | discart |
| PH01A | | | 0900 | 4' | | | | | |
| PH02 | | | 0910 | 1' | | | | | |
| PH02A | | | 0925 | 4' | | | | | |
| SW44 | | | 0940 | 0'-4' | | | | | completes |
| SW45 | | | 1155 | 0'-4' | | | | | completes |
| PH03 | | | 1015 | 1' | | | | | discart |
| PH03A | | | 1030 | 4' | | | | | |
| PH05A | | | 1055 | 4' | | | | | |
| PH06A | | | 1040 | 4' | | | | | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| | | | | | |
|------------------------------|--------------------------|-------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 3.4.21 1317 | | | |
| | | | | | |
| | | | | | |
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| | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-257-1
SDG Number: TE012919246

Login Number: 257
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | 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: Tacoma Morrissey
Ensolum
705 W. Wadley
Suite 210
Midland, Texas 79701

Generated 11/29/2022 8:59:27 AM

JOB DESCRIPTION

PLU 89
SDG NUMBER 03E1558076

JOB NUMBER

890-3532-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

Authorization



Generated
11/29/2022 8:59:27 AM

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

Client: Ensolum
Project/Site: PLU 89

Laboratory Job ID: 890-3532-1
SDG: 03E1558076

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Definitions/Glossary

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

Job ID: 890-3532-1

Laboratory: Eurofins Carlsbad**Narrative****Job Narrative
890-3532-1****Receipt**

The samples were received on 11/18/2022 1:02 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: SW47 (890-3532-1) and SW48 (890-3532-2).

GC VOA

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

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

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

Method 8021B: Surrogate recovery for the following sample was outside control limits: SW47 (890-3532-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

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

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW47 (890-3532-1), SW48 (890-3532-2), (890-3525-A-1-B), (890-3525-A-1-C MS) and (890-3525-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

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

HPLC/IC

Case Narrative

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

Job ID: 890-3532-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

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

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Client Sample Results

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

Client Sample ID: SW47

Lab Sample ID: 890-3532-1

Date Collected: 11/18/22 09:40

Matrix: Solid

Date Received: 11/18/22 13:02

Sample Depth: 0-4'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 02:57 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 02:57 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 02:57 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/28/22 12:53 | 11/29/22 02:57 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/28/22 12:53 | 11/29/22 02:57 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/28/22 12:53 | 11/29/22 02:57 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 62 | S1- | 70 - 130 | 11/28/22 12:53 | 11/29/22 02:57 | 1 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 | 11/28/22 12:53 | 11/29/22 02:57 | 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 | | | 11/29/22 09:34 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/28/22 11:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U *1 | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/24/22 00:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/24/22 00:43 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/24/22 00:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 124 | | 70 - 130 | 11/23/22 15:04 | 11/24/22 00:43 | 1 |
| o-Terphenyl | 144 | S1+ | 70 - 130 | 11/23/22 15:04 | 11/24/22 00:43 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 180 | | 5.00 | mg/Kg | | | 11/23/22 22:42 | 1 |

Client Sample ID: SW48

Lab Sample ID: 890-3532-2

Date Collected: 11/18/22 09:50

Matrix: Solid

Date Received: 11/18/22 13:02

Sample Depth: 0-4'

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/28/22 12:53 | 11/29/22 03:17 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/28/22 12:53 | 11/29/22 03:17 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/28/22 12:53 | 11/29/22 03:17 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/28/22 12:53 | 11/29/22 03:17 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/28/22 12:53 | 11/29/22 03:17 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/28/22 12:53 | 11/29/22 03:17 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 72 | | 70 - 130 | 11/28/22 12:53 | 11/29/22 03:17 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

Client Sample ID: SW48

Lab Sample ID: 890-3532-2

Date Collected: 11/18/22 09:50

Matrix: Solid

Date Received: 11/18/22 13:02

Sample Depth: 0-4'

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 115 | | 70 - 130 | 11/28/22 12:53 | 11/29/22 03:17 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | | | 11/29/22 09:34 | 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 | | | 11/28/22 11:40 | 1 |

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

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U *1 | 49.8 | mg/Kg | | 11/23/22 15:04 | 11/24/22 01:05 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | mg/Kg | | 11/23/22 15:04 | 11/24/22 01:05 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | mg/Kg | | 11/23/22 15:04 | 11/24/22 01:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 110 | | 70 - 130 | 11/23/22 15:04 | 11/24/22 01:05 | 1 |
| o-Terphenyl | 139 | S1+ | 70 - 130 | 11/23/22 15:04 | 11/24/22 01:05 | 1 |

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 295 | | 4.98 | mg/Kg | | | 11/23/22 22:50 | 1 |

Surrogate Summary

Client: Ensolum
Project/Site: PLU 89Job ID: 890-3532-1
SDG: 03E1558076

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB1 | DFBZ1 |
|---------------------|------------------------|----------|----------|
| | | (70-130) | (70-130) |
| 880-21941-A-1-D MS | Matrix Spike | 76 | 105 |
| 880-21941-A-1-E MSD | Matrix Spike Duplicate | 69 S1- | 102 |
| 890-3532-1 | SW47 | 62 S1- | 96 |
| 890-3532-2 | SW48 | 72 | 115 |
| LCS 880-40466/1-A | Lab Control Sample | 84 | 111 |
| LCSD 880-40466/2-A | Lab Control Sample Dup | 82 | 94 |
| MB 880-40412/5-A | Method Blank | 74 | 110 |
| MB 880-40466/5-A | Method Blank | 73 | 97 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO1 | OTPH1 |
|--------------------|------------------------|----------|----------|
| | | (70-130) | (70-130) |
| 890-3525-A-1-C MS | Matrix Spike | 145 S1+ | 159 S1+ |
| 890-3525-A-1-D MSD | Matrix Spike Duplicate | 147 S1+ | 164 S1+ |
| 890-3532-1 | SW47 | 124 | 144 S1+ |
| 890-3532-2 | SW48 | 110 | 139 S1+ |
| LCS 880-40343/2-A | Lab Control Sample | 175 S1+ | 217 S1+ |
| LCSD 880-40343/3-A | Lab Control Sample Dup | 200 S1+ | 240 S1+ |
| MB 880-40343/1-A | Method Blank | 155 S1+ | 184 S1+ |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-40412/5-A
Matrix: Solid
Analysis Batch: 40361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40412

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 74 | | 70 - 130 | | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |
| 1,4-Difluorobenzene (Surr) | 110 | | 70 - 130 | | | 11/28/22 10:23 | 11/28/22 12:29 | 1 |

Lab Sample ID: MB 880-40466/5-A
Matrix: Solid
Analysis Batch: 40361

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40466

| Analyte | MB | MB | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| | Result | Qualifier | | | | | | |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 73 | | 70 - 130 | | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |
| 1,4-Difluorobenzene (Surr) | 97 | | 70 - 130 | | | 11/28/22 12:53 | 11/29/22 00:05 | 1 |

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

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40466

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|-----------------------------|------------------|------------------|---------------|-------|---|------|-------------|
| | | | | | | | |
| Toluene | 0.100 | 0.1006 | | mg/Kg | | 101 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09217 | | mg/Kg | | 92 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1598 | | mg/Kg | | 80 | 70 - 130 |
| o-Xylene | 0.100 | 0.07997 | | mg/Kg | | 80 | 70 - 130 |
| Surrogate | %Recovery | Qualifier | Limits | | | | |
| 4-Bromofluorobenzene (Surr) | 84 | | 70 - 130 | | | | |
| 1,4-Difluorobenzene (Surr) | 111 | | 70 - 130 | | | | |

Lab Sample ID: LCSD 880-40466/2-A
Matrix: Solid
Analysis Batch: 40361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40466

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | |
|---------|-------------|-------------|----------------|-------|---|------|-------------|-----|-------|
| | | | | | | | | RPD | Limit |
| Benzene | 0.100 | 0.08207 | | mg/Kg | | 82 | 70 - 130 | 24 | 35 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

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

Lab Sample ID: LCSD 880-40466/2-A
Matrix: Solid
Analysis Batch: 40361

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40466

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec | | RPD | Limit |
|-----------------------------|------------------|------------------|----------------|-------|---|------|----------|-----|-----|-------|
| | | | | | | | Limits | RPD | | |
| Toluene | 0.100 | 0.1103 | | mg/Kg | | 110 | 70 - 130 | 9 | 35 | |
| Ethylbenzene | 0.100 | 0.1123 | | mg/Kg | | 112 | 70 - 130 | 20 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.2024 | | mg/Kg | | 101 | 70 - 130 | 24 | 35 | |
| o-Xylene | 0.100 | 0.09966 | | mg/Kg | | 100 | 70 - 130 | 22 | 35 | |
| | | LCSD | LCSD | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 82 | | 70 - 130 | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 94 | | 70 - 130 | | | | | | | |

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

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec | | RPD | Limit |
|-----------------------------|------------------|------------------|---------------|-----------|--------------|-------|---|------|----------|-----|-----|-------|
| | | | | | | | | | Limits | RPD | | |
| Benzene | <0.00200 | U F1 | 0.0996 | 0.03139 | F1 | mg/Kg | | 32 | 70 - 130 | | | |
| Toluene | <0.00200 | U F1 | 0.0996 | 0.02826 | F1 | mg/Kg | | 28 | 70 - 130 | | | |
| Ethylbenzene | <0.00200 | U F1 | 0.0996 | 0.02733 | F1 | mg/Kg | | 27 | 70 - 130 | | | |
| m-Xylene & p-Xylene | <0.00401 | U F1 | 0.199 | 0.04741 | F1 | mg/Kg | | 24 | 70 - 130 | | | |
| o-Xylene | <0.00200 | U F1 | 0.0996 | 0.02598 | F1 | mg/Kg | | 26 | 70 - 130 | | | |
| | | MS | MS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 76 | | 70 - 130 | | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | | | | | | | |

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

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

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec | | RPD | Limit |
|-----------------------------|------------------|------------------|---------------|------------|---------------|-------|---|------|----------|-----|-----|-------|
| | | | | | | | | | Limits | RPD | | |
| Benzene | <0.00200 | U F1 | 0.0996 | 0.03831 | F1 | mg/Kg | | 38 | 70 - 130 | 20 | 35 | |
| Toluene | <0.00200 | U F1 | 0.0996 | 0.02919 | F1 | mg/Kg | | 29 | 70 - 130 | 3 | 35 | |
| Ethylbenzene | <0.00200 | U F1 | 0.0996 | 0.02670 | F1 | mg/Kg | | 27 | 70 - 130 | 2 | 35 | |
| m-Xylene & p-Xylene | <0.00401 | U F1 | 0.199 | 0.04101 | F1 | mg/Kg | | 21 | 70 - 130 | 14 | 35 | |
| o-Xylene | <0.00200 | U F1 | 0.0996 | 0.02211 | F1 | mg/Kg | | 22 | 70 - 130 | 16 | 35 | |
| | | MSD | MSD | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 69 | S1- | 70 - 130 | | | | | | | | | |
| 1,4-Difluorobenzene (Surr) | 102 | | 70 - 130 | | | | | | | | | |

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

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

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40343

| 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 | | 11/23/22 15:04 | 11/23/22 20:46 | 1 |

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QC Sample Results

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

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

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

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40343

| 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 | | 11/23/22 15:04 | 11/23/22 20:46 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/23/22 15:04 | 11/23/22 20:46 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1-Chlorooctane | 155 | S1+ | 70 - 130 | 11/23/22 15:04 | 11/23/22 20:46 | 1 |
| o-Terphenyl | 184 | S1+ | 70 - 130 | 11/23/22 15:04 | 11/23/22 20:46 | 1 |

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

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40343

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|------|-----|----------|-------------|
| | | | | | | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1030 | mg/Kg | | 103 | 70 - 130 | |

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

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

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40343

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| | | | | | | | | | |
| Diesel Range Organics (Over C10-C28) | 1000 | 1169 | | mg/Kg | | 117 | 70 - 130 | 13 | 20 |

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

Lab Sample ID: 890-3525-A-1-C MS
Matrix: Solid
Analysis Batch: 40262

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 40343

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

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

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QC Sample Results

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

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

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

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 40343

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|------------------|----------------------|-------------|---------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U *1 | 998 | 1103 | | mg/Kg | | 111 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U F1 | 998 | 1360 | F1 | mg/Kg | | 136 | 70 - 130 | 4 | 20 |
| Surrogate | %Recovery | MSD Qualifier | MSD | Limits | | | | | | | |
| 1-Chlorooctane | 147 | S1+ | | 70 - 130 | | | | | | | |
| o-Terphenyl | 164 | S1+ | | 70 - 130 | | | | | | | |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-40010/1-A
Matrix: Solid
Analysis Batch: 40325

Client Sample ID: Method Blank
Prep Type: Soluble

| Analyte | MB Result | MB Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/23/22 19:11 | 1 |

Lab Sample ID: LCS 880-40010/2-A
Matrix: Solid
Analysis Batch: 40325

Client Sample ID: Lab Control Sample
Prep Type: Soluble

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 250 | 243.9 | | mg/Kg | | 98 | 90 - 110 |

Lab Sample ID: LCSD 880-40010/3-A
Matrix: Solid
Analysis Batch: 40325

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Chloride | 250 | 246.3 | | mg/Kg | | 99 | 90 - 110 | 1 | 20 |

Lab Sample ID: 890-3526-A-1-B MS
Matrix: Solid
Analysis Batch: 40325

Client Sample ID: Matrix Spike
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 458 | F1 | 250 | 669.7 | F1 | mg/Kg | | 85 | 90 - 110 |

Lab Sample ID: 890-3526-A-1-C MSD
Matrix: Solid
Analysis Batch: 40325

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 458 | F1 | 250 | 670.8 | F1 | mg/Kg | | 85 | 90 - 110 | 0 | 20 |

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QC Association Summary

Client: Ensolum
Project/Site: PLU 89Job ID: 890-3532-1
SDG: 03E1558076

GC VOA

Analysis Batch: 40361

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3532-1 | SW47 | Total/NA | Solid | 8021B | 40466 |
| 890-3532-2 | SW48 | Total/NA | Solid | 8021B | 40466 |
| MB 880-40412/5-A | Method Blank | Total/NA | Solid | 8021B | 40412 |
| MB 880-40466/5-A | Method Blank | Total/NA | Solid | 8021B | 40466 |
| LCS 880-40466/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 40466 |
| LCSD 880-40466/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 40466 |
| 880-21941-A-1-D MS | Matrix Spike | Total/NA | Solid | 8021B | 40466 |
| 880-21941-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 40466 |

Prep Batch: 40412

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-40412/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 40466

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-3532-1 | SW47 | Total/NA | Solid | 5035 | |
| 890-3532-2 | SW48 | Total/NA | Solid | 5035 | |
| MB 880-40466/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-40466/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-40466/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-21941-A-1-D MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-21941-A-1-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 40570

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-3532-1 | SW47 | Total/NA | Solid | Total BTEX | |
| 890-3532-2 | SW48 | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 40262

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3532-1 | SW47 | Total/NA | Solid | 8015B NM | 40343 |
| 890-3532-2 | SW48 | Total/NA | Solid | 8015B NM | 40343 |
| MB 880-40343/1-A | Method Blank | Total/NA | Solid | 8015B NM | 40343 |
| LCS 880-40343/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 40343 |
| LCSD 880-40343/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 40343 |
| 890-3525-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 40343 |
| 890-3525-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 40343 |

Prep Batch: 40343

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-3532-1 | SW47 | Total/NA | Solid | 8015NM Prep | |
| 890-3532-2 | SW48 | Total/NA | Solid | 8015NM Prep | |
| MB 880-40343/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-40343/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-40343/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-3525-A-1-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-3525-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

GC Semi VOA

Analysis Batch: 40449

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-3532-1 | SW47 | Total/NA | Solid | 8015 NM | |
| 890-3532-2 | SW48 | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 40010

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-3532-1 | SW47 | Soluble | Solid | DI Leach | |
| 890-3532-2 | SW48 | Soluble | Solid | DI Leach | |
| MB 880-40010/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-40010/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-40010/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-3526-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-3526-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 40325

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-3532-1 | SW47 | Soluble | Solid | 300.0 | 40010 |
| 890-3532-2 | SW48 | Soluble | Solid | 300.0 | 40010 |
| MB 880-40010/1-A | Method Blank | Soluble | Solid | 300.0 | 40010 |
| LCS 880-40010/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 40010 |
| LCSD 880-40010/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 40010 |
| 890-3526-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 40010 |
| 890-3526-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 40010 |

Lab Chronicle

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

Client Sample ID: SW47

Lab Sample ID: 890-3532-1

Date Collected: 11/18/22 09:40

Matrix: Solid

Date Received: 11/18/22 13:02

| 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 | 40466 | 11/28/22 12:53 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40361 | 11/29/22 02:57 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40570 | 11/29/22 09:34 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40449 | 11/28/22 11:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.00 g | 10 mL | 40343 | 11/23/22 15:04 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40262 | 11/24/22 00:43 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5 g | 50 mL | 40010 | 11/20/22 12:21 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40325 | 11/23/22 22:42 | CH | EET MID |

Client Sample ID: SW48

Lab Sample ID: 890-3532-2

Date Collected: 11/18/22 09:50

Matrix: Solid

Date Received: 11/18/22 13:02

| 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 | 40466 | 11/28/22 12:53 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 40361 | 11/29/22 03:17 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 40570 | 11/29/22 09:34 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 40449 | 11/28/22 11:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 40343 | 11/23/22 15:04 | AM | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 40262 | 11/24/22 01:05 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 40010 | 11/20/22 12:21 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 40325 | 11/23/22 22:50 | CH | EET MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

Laboratory: Eurofins Midland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-22-24 | 06-30-23 |

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

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

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Method Summary

Client: Ensolum
 Project/Site: PLU 89

Job ID: 890-3532-1
 SDG: 03E1558076

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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



Sample Summary

Client: Ensolum
Project/Site: PLU 89

Job ID: 890-3532-1
SDG: 03E1558076

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-3532-1 | SW47 | Solid | 11/18/22 09:40 | 11/18/22 13:02 | 0-4' |
| 890-3532-2 | SW48 | Solid | 11/18/22 09:50 | 11/18/22 13:02 | 0-4' |

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Environment Testing
Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

| | | | |
|------------------|---------------------|-------------------------|------------------------|
| Project Manager: | Taeema Morrissey | Bill to: (if different) | Garrett Green |
| Company Name: | Ensolum, LLC | Company Name: | XTO Energy |
| Address: | 3122 Nati Parks Hwy | Address: | 3104 E Greene St |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | 337.257.8307 | Email: | mmorrissey@ensolum.com |

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

| | | | |
|-------------------|--------------------|---|-----------|
| Project Name: | PLU 89 | Turn Around | Pre: Code |
| Project Number: | 03E1558076 | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | |
| Project Location: | 32188881703-829701 | Date: | |
| Sampler's Name: | Meredith Roberts | TAT starts the day received by the lab, if received by 4:30pm | |
| P.O. #: | | | |

| | | | |
|--------------------------|---|---|------------|
| SAMPLE RECEIPT | Temp Blank: | Wet Ice: | Parameters |
| Samples Received Intact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Chlorides |
| Cooler Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID: | BTEX |
| Sample Custody Seals: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor: | TPH |
| Total Containers: | | Temperature Reading: | |
| | | Corrected Temperature: | |



| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/Comp | # of Cont | Analysis Request | Preservative Codes | Sample Comments |
|-----------------------|--------|--------------|--------------|--------|-----------|-----------|------------------|---|------------------------------|
| SW4T | S | 11/18/22 | 0940 | 0-4' G | G | 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: SARC | Incident #: NR1193235096a |
| SW48 | S | 11/18/22 | 0950 | 0-4' G | G | 1 | | | Cost Center: 1136651001 |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

| | | | | | |
|------------------------------|--------------------------|---------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 11/18/22 1302 | | | |

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3532-1

SDG Number: 03E1558076

Login Number: 3532

List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-3532-1

SDG Number: 03E1558076

Login Number: 3532

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-226-1
Laboratory Sample Delivery Group: TE012919246
Client Project/Site: PLU 89 SWD Line

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Dan Moir

Authorized for release by:
3/1/2021 7:09:36 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com



LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Laboratory Job ID: 890-226-1
SDG: TE012919246

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Qualifiers

Subcontract

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Job ID: 890-226-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-226-1

Receipt

The samples were received on 2/24/2021 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

Subcontract Lab non-Sister Lab

See attached subcontract report.

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: FS20
Date Collected: 02/24/21 09:33
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-1
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:59 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:59 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:59 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:59 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:59 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:59 | 1 |
| Total Xylenes | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:59 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 92 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 19:59 | 1 |
| 4-Bromofluorobenzene | 111 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 19:59 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 37.3 | | 4.97 | | mg/kg | | 02/26/21 15:30 | 02/26/21 20:41 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 11:56 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 11:56 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 11:56 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 11:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 11:56 | 1 |
| o-Terphenyl | 112 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 11:56 | 1 |

Client Sample ID: FS21
Date Collected: 02/24/21 09:34
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-2
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:19 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:19 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:19 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:19 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:19 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:19 | 1 |
| Total Xylenes | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:19 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 121 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 20:19 | 1 |
| 4-Bromofluorobenzene | 74 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 20:19 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 261 | | 4.98 | | mg/kg | | 02/26/21 15:30 | 02/26/21 20:46 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:00 | 1 |

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: FS21

Lab Sample ID: 890-226-2

Date Collected: 02/24/21 09:34

Matrix: Solid

Date Received: 02/24/21 15:50

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:00 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:00 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 86 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 13:00 | 1 |
| o-Terphenyl | 99 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 13:00 | 1 |

Client Sample ID: FS22

Lab Sample ID: 890-226-3

Date Collected: 02/24/21 09:36

Matrix: Solid

Date Received: 02/24/21 15:50

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:40 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:40 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:40 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:40 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:40 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:40 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 20:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 91 | | 70 - 130 | | | | 02/26/21 16:30 | 02/26/21 20:40 | 1 |
| 4-Bromofluorobenzene | 106 | | 70 - 130 | | | | 02/26/21 16:30 | 02/26/21 20:40 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 1500 | | 25.0 | | mg/kg | | 02/26/21 15:30 | 02/26/21 20:52 | 5 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:22 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:22 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:22 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 13:22 | 1 |
| o-Terphenyl | 101 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 13:22 | 1 |

Client Sample ID: FS23

Lab Sample ID: 890-226-4

Date Collected: 02/24/21 09:37

Matrix: Solid

Date Received: 02/24/21 15:50

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:00 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:00 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:00 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:00 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:00 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: FS23
Date Collected: 02/24/21 09:37
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-4
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:00 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 94 | | 70 - 130 | | | | 02/26/21 16:30 | 02/26/21 21:00 | 1 |
| 4-Bromofluorobenzene | 104 | | 70 - 130 | | | | 02/26/21 16:30 | 02/26/21 21:00 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 3800 | | 25.0 | | mg/kg | | 02/26/21 15:30 | 02/26/21 20:57 | 5 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:43 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:43 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:43 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 13:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 91 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 13:43 | 1 |
| o-Terphenyl | 99 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 13:43 | 1 |

Client Sample ID: FS24
Date Collected: 02/24/21 11:15
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-5
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:21 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:21 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:21 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:21 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:21 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:21 | 1 |
| Total Xylenes | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 92 | | 70 - 130 | | | | 02/26/21 16:30 | 02/26/21 21:21 | 1 |
| 4-Bromofluorobenzene | 110 | | 70 - 130 | | | | 02/26/21 16:30 | 02/26/21 21:21 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 5580 | | 50.0 | | mg/kg | | 02/26/21 15:30 | 02/26/21 21:03 | 10 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:04 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:04 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:04 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:04 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: FS24
Date Collected: 02/24/21 11:15
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-5
Matrix: Solid

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 14:04 | 1 |
| o-Terphenyl | 100 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 14:04 | 1 |

Client Sample ID: FS25
Date Collected: 02/24/21 11:17
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-6
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:41 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:41 | 1 |
| m,p-Xylenes | <0.00401 | U | 0.00401 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:41 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:41 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:41 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:41 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/26/21 21:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 94 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 21:41 | 1 |
| 4-Bromofluorobenzene | 103 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 21:41 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 183 | | 4.95 | | mg/kg | | 02/26/21 17:10 | 02/26/21 20:31 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:25 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:25 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:25 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 76 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 14:25 | 1 |
| o-Terphenyl | 94 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 14:25 | 1 |

Client Sample ID: FS26
Date Collected: 02/24/21 11:18
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-7
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:01 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:01 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:01 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:01 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:01 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:01 | 1 |
| Total Xylenes | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:01 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 94 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 22:01 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: FS26
Date Collected: 02/24/21 11:18
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-7
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 101 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 22:01 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 1040 | | 5.02 | | mg/kg | | 02/26/21 17:10 | 02/26/21 20:47 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:47 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:47 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:47 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 14:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 106 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 14:47 | 1 |
| o-Terphenyl | 123 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 14:47 | 1 |

Client Sample ID: FS27
Date Collected: 02/24/21 11:19
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-8
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:22 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:22 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:22 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:22 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:22 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:22 | 1 |
| Total Xylenes | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:22 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 94 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 22:22 | 1 |
| 4-Bromofluorobenzene | 108 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 22:22 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 1010 | | 5.04 | | mg/kg | | 02/26/21 17:10 | 02/26/21 20:53 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:08 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:08 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:08 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 76 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 15:08 | 1 |
| o-Terphenyl | 95 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 15:08 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-226-1
SDG: TE012919246Client Sample ID: FS28
Date Collected: 02/24/21 12:26
Date Received: 02/24/21 15:50Lab Sample ID: 890-226-9
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:42 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:42 | 1 |
| m,p-Xylenes | <0.00396 | U | 0.00396 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:42 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:42 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:42 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:42 | 1 |
| Total Xylenes | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/26/21 22:42 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 84 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 22:42 | 1 |
| 4-Bromofluorobenzene | 98 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 22:42 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 43.9 | | 5.05 | | mg/kg | | 02/26/21 17:10 | 02/26/21 20:58 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:29 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:29 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:29 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:29 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 15:29 | 1 |
| o-Terphenyl | 101 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 15:29 | 1 |

Client Sample ID: SW28
Date Collected: 02/24/21 09:31
Date Received: 02/24/21 15:50Lab Sample ID: 890-226-10
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 23:03 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 23:03 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/kg | | 02/26/21 16:30 | 02/26/21 23:03 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 23:03 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 23:03 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 23:03 | 1 |
| Total Xylenes | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 16:30 | 02/26/21 23:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 93 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 23:03 | 1 |
| 4-Bromofluorobenzene | 102 | | 70 - 130 | 02/26/21 16:30 | 02/26/21 23:03 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 35.1 | | 5.05 | | mg/kg | | 02/26/21 17:10 | 02/26/21 21:03 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:50 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW28

Lab Sample ID: 890-226-10

Date Collected: 02/24/21 09:31

Matrix: Solid

Date Received: 02/24/21 15:50

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:50 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:50 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 15:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 81 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 15:50 | 1 |
| o-Terphenyl | 91 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 15:50 | 1 |

Client Sample ID: SW29

Lab Sample ID: 890-226-11

Date Collected: 02/24/21 09:39

Matrix: Solid

Date Received: 02/24/21 15:50

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:26 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:26 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:26 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:26 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:26 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:26 | 1 |
| Total Xylenes | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 92 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 00:26 | 1 |
| 4-Bromofluorobenzene | 99 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 00:26 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 14.7 | | 4.98 | | mg/kg | | 02/26/21 17:10 | 02/26/21 21:19 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 16:33 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 16:33 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 16:33 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 16:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 16:33 | 1 |
| o-Terphenyl | 97 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 16:33 | 1 |

Client Sample ID: SW30

Lab Sample ID: 890-226-12

Date Collected: 02/24/21 09:40

Matrix: Solid

Date Received: 02/24/21 15:50

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:46 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:46 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:46 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:46 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:46 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-226-1
SDG: TE012919246Client Sample ID: SW30
Date Collected: 02/24/21 09:40
Date Received: 02/24/21 15:50Lab Sample ID: 890-226-12
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:46 | 1 |
| Total Xylenes | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 00:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 95 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 00:46 | 1 |
| 4-Bromofluorobenzene | 105 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 00:46 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 523 | | 4.96 | | mg/kg | | 02/26/21 17:10 | 02/26/21 21:25 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 16:55 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 16:55 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 16:55 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 16:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 81 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 16:55 | 1 |
| o-Terphenyl | 96 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 16:55 | 1 |

Client Sample ID: SW31
Date Collected: 02/24/21 09:41
Date Received: 02/24/21 15:50Lab Sample ID: 890-226-13
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:06 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:06 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:06 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:06 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:06 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:06 | 1 |
| Total Xylenes | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 96 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 01:06 | 1 |
| 4-Bromofluorobenzene | 104 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 01:06 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 1180 | | 4.99 | | mg/kg | | 02/26/21 17:10 | 02/26/21 21:30 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:16 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:16 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:16 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:16 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW31
Date Collected: 02/24/21 09:41
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-13
Matrix: Solid

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 78 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 17:16 | 1 |
| o-Terphenyl | 90 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 17:16 | 1 |

Client Sample ID: SW32
Date Collected: 02/24/21 09:42
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-14
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:27 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:27 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:27 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:27 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:27 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:27 | 1 |
| Total Xylenes | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:27 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 86 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 01:27 | 1 |
| 4-Bromofluorobenzene | 108 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 01:27 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 652 | | 5.02 | | mg/kg | | 02/26/21 17:10 | 02/26/21 21:35 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:37 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:37 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:37 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:37 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 17:37 | 1 |
| o-Terphenyl | 111 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 17:37 | 1 |

Client Sample ID: SW33
Date Collected: 02/24/21 11:22
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-15
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:47 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:47 | 1 |
| m,p-Xylenes | <0.00396 | U | 0.00396 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:47 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:47 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:47 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:47 | 1 |
| Total Xylenes | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 01:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 89 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 01:47 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-226-1
SDG: TE012919246Client Sample ID: SW33
Date Collected: 02/24/21 11:22
Date Received: 02/24/21 15:50Lab Sample ID: 890-226-15
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 105 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 01:47 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 120 | | 5.05 | | mg/kg | | 02/26/21 17:10 | 02/26/21 21:41 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:59 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:59 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:59 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 17:59 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 17:59 | 1 |
| o-Terphenyl | 102 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 17:59 | 1 |

Client Sample ID: SW34
Date Collected: 02/24/21 11:24
Date Received: 02/24/21 15:50Lab Sample ID: 890-226-16
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:08 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:08 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:08 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:08 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:08 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:08 | 1 |
| Total Xylenes | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 92 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 02:08 | 1 |
| 4-Bromofluorobenzene | 105 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 02:08 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 30.5 | | 4.97 | | mg/kg | | 02/26/21 17:10 | 02/26/21 21:46 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 18:20 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 18:20 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 18:20 | 1 |
| Total TPH | <49.8 | U | 49.8 | | mg/kg | | 02/27/21 09:00 | 02/27/21 18:20 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 74 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 18:20 | 1 |
| o-Terphenyl | 82 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 18:20 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW35
Date Collected: 02/24/21 11:25
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-17
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:28 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:28 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:28 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:28 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:28 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:28 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 91 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 02:28 | 1 |
| 4-Bromofluorobenzene | 107 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 02:28 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 135 | | 4.99 | | mg/kg | | 02/26/21 17:10 | 02/26/21 22:02 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 18:41 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 18:41 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 18:41 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 18:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 93 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 18:41 | 1 |
| o-Terphenyl | 99 | | 70 - 135 | 02/27/21 09:00 | 02/27/21 18:41 | 1 |

Client Sample ID: SW36
Date Collected: 02/24/21 11:26
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-18
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:48 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:48 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:48 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:48 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:48 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:48 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 16:30 | 02/27/21 02:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 92 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 02:48 | 1 |
| 4-Bromofluorobenzene | 104 | | 70 - 130 | 02/26/21 16:30 | 02/27/21 02:48 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 1730 | | 25.0 | | mg/kg | | 02/26/21 17:10 | 02/26/21 22:07 | 5 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:02 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW36
Date Collected: 02/24/21 11:26
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-18
Matrix: Solid

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:02 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:02 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 86 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 19:02 | 1 |
| o-Terphenyl | 96 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 19:02 | 1 |

Client Sample ID: SW37
Date Collected: 02/24/21 11:27
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-19
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:09 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:09 | 1 |
| m,p-Xylenes | <0.00396 | U | 0.00396 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:09 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:09 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:09 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:09 | 1 |
| Total Xylenes | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:09 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 94 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 03:09 | 1 |
| 4-Bromofluorobenzene | 105 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 03:09 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 835 | | 5.00 | | mg/kg | | 02/26/21 17:10 | 02/26/21 22:23 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:23 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:23 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:23 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 86 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 19:23 | 1 |
| o-Terphenyl | 99 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 19:23 | 1 |

Client Sample ID: SW38
Date Collected: 02/24/21 11:29
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-20
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:29 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:29 | 1 |
| m,p-Xylenes | <0.00396 | U | 0.00396 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:29 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:29 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:29 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW38
Date Collected: 02/24/21 11:29
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-20
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:29 | 1 |
| Total Xylenes | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 16:30 | 02/27/21 03:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 96 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 03:29 | 1 |
| 4-Bromofluorobenzene | 104 | | 70 - 130 | | | | 02/26/21 16:30 | 02/27/21 03:29 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 1950 | | 25.0 | | mg/kg | | 02/26/21 17:10 | 02/26/21 22:28 | 5 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 115 | | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:44 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:44 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:44 | 1 |
| Total TPH | 115 | | 50.0 | | mg/kg | | 02/27/21 09:00 | 02/27/21 19:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 89 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 19:44 | 1 |
| o-Terphenyl | 107 | | 70 - 135 | | | | 02/27/21 09:00 | 02/27/21 19:44 | 1 |

Client Sample ID: SW39
Date Collected: 02/24/21 11:30
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-21
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | | 0.00202 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:52 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:52 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:52 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:52 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:52 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:52 | 1 |
| Total Xylenes | <0.00202 | U | 0.00202 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 90 | | 70 - 130 | | | | 02/26/21 17:00 | 02/27/21 06:52 | 1 |
| 4-Bromofluorobenzene | 105 | | 70 - 130 | | | | 02/26/21 17:00 | 02/27/21 06:52 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 44.0 | | 5.05 | | mg/kg | | 02/26/21 17:10 | 02/26/21 22:34 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 03:28 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 03:28 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 03:28 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 03:28 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW39
Date Collected: 02/24/21 11:30
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-21
Matrix: Solid

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 97 | | 70 - 135 | 02/27/21 11:00 | 02/28/21 03:28 | 1 |
| o-Terphenyl | 115 | | 70 - 135 | 02/27/21 11:00 | 02/28/21 03:28 | 1 |

Client Sample ID: SW40
Date Collected: 02/24/21 12:28
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-22
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:13 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:13 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:13 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:13 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:13 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:13 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 93 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 07:13 | 1 |
| 4-Bromofluorobenzene | 102 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 07:13 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 15.5 | | 4.98 | | mg/kg | | 02/26/21 17:10 | 02/26/21 22:39 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 11:00 | 02/28/21 03:49 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 11:00 | 02/28/21 03:49 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 11:00 | 02/28/21 03:49 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/27/21 11:00 | 02/28/21 03:49 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 80 | | 70 - 135 | 02/27/21 11:00 | 02/28/21 03:49 | 1 |
| o-Terphenyl | 88 | | 70 - 135 | 02/27/21 11:00 | 02/28/21 03:49 | 1 |

Client Sample ID: SW41
Date Collected: 02/24/21 12:30
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-23
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:33 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:33 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:33 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:33 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:33 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:33 | 1 |
| Total Xylenes | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:33 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 84 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 07:33 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-226-1
SDG: TE012919246Client Sample ID: SW41
Date Collected: 02/24/21 12:30
Date Received: 02/24/21 15:50Lab Sample ID: 890-226-23
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 95 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 07:33 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 14.4 | | 4.99 | | mg/kg | | 02/26/21 17:10 | 02/26/21 22:44 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 04:10 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 04:10 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 04:10 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 04:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 135 | 02/27/21 11:00 | 02/28/21 04:10 | 1 |
| o-Terphenyl | 95 | | 70 - 135 | 02/27/21 11:00 | 02/28/21 04:10 | 1 |

Client Sample ID: SW42
Date Collected: 02/24/21 11:33
Date Received: 02/24/21 15:50Lab Sample ID: 890-226-24
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:54 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:54 | 1 |
| m,p-Xylenes | <0.00402 | U | 0.00402 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:54 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:54 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:54 | 1 |
| Total BTEX | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:54 | 1 |
| Total Xylenes | <0.00201 | U | 0.00201 | | mg/kg | | 02/26/21 17:00 | 02/27/21 07:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 94 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 07:54 | 1 |
| 4-Bromofluorobenzene | 105 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 07:54 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 737 | | 5.05 | | mg/kg | | 02/26/21 17:10 | 02/26/21 22:50 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 04:32 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 04:32 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 04:32 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 02/27/21 11:00 | 02/28/21 04:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85 | | 70 - 135 | 02/27/21 11:00 | 02/28/21 04:32 | 1 |
| o-Terphenyl | 102 | | 70 - 135 | 02/27/21 11:00 | 02/28/21 04:32 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW43
Date Collected: 02/24/21 11:32
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-25
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:14 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:14 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:14 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:14 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:14 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:14 | 1 |
| Total Xylenes | <0.00198 | U | 0.00198 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:14 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 86 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 08:14 | 1 |
| 4-Bromofluorobenzene | 100 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 08:14 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 724 | | 4.98 | | mg/kg | | 02/26/21 17:10 | 02/26/21 22:55 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 99.3 | | 50.0 | | mg/kg | | 02/28/21 10:00 | 02/28/21 18:09 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/28/21 10:00 | 02/28/21 18:09 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/28/21 10:00 | 02/28/21 18:09 | 1 |
| Total TPH | 99.3 | | 50.0 | | mg/kg | | 02/28/21 10:00 | 02/28/21 18:09 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 88 | | 70 - 135 | 02/28/21 10:00 | 02/28/21 18:09 | 1 |
| o-Terphenyl | 113 | | 70 - 135 | 02/28/21 10:00 | 02/28/21 18:09 | 1 |

Client Sample ID: SW44
Date Collected: 02/24/21 11:31
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-26
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:35 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:35 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:35 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:35 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:35 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:35 | 1 |
| Total Xylenes | <0.00199 | U | 0.00199 | | mg/kg | | 02/26/21 17:00 | 02/27/21 08:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 84 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 08:35 | 1 |
| 4-Bromofluorobenzene | 105 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 08:35 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 227 | | 5.02 | | mg/kg | | 02/26/21 17:30 | 02/26/21 23:27 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 02/28/21 10:00 | 02/28/21 18:31 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
 SDG: TE012919246

Client Sample ID: SW44
Date Collected: 02/24/21 11:31
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-26
Matrix: Solid

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 02/28/21 10:00 | 02/28/21 18:31 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 02/28/21 10:00 | 02/28/21 18:31 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 02/28/21 10:00 | 02/28/21 18:31 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99 | | 70 - 135 | 02/28/21 10:00 | 02/28/21 18:31 | 1 |
| o-Terphenyl | 131 | | 70 - 135 | 02/28/21 10:00 | 02/28/21 18:31 | 1 |

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method

Matrix: SOIL

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) |
|---------------|------------------------|-----------------|
| 689487-001 S | Matrix Spike | 103 |
| 689487-001 SD | Matrix Spike Duplicate | 105 |
| 689487-021 S | Matrix Spike | 102 |
| 689487-021 SD | Matrix Spike Duplicate | 106 |
| 7722135-1-BKS | Lab Control Sample | 103 |
| 7722135-1-BLK | Method Blank | 95 |
| 7722135-1-BSD | Lab Control Sample Dup | 110 |
| 7722136-1-BKS | Lab Control Sample | 103 |
| 7722136-1-BLK | Method Blank | 101 |
| 7722136-1-BSD | Lab Control Sample Dup | 106 |

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method: BTEX 8021 - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) | DFBZ (70-130) |
|---------------|------------------|-----------------|------------------|
| 890-226-1 | FS20 | 111 | 92 |
| 890-226-2 | FS21 | 74 | 121 |
| 890-226-3 | FS22 | 106 | 91 |
| 890-226-4 | FS23 | 104 | 94 |
| 890-226-5 | FS24 | 110 | 92 |
| 890-226-6 | FS25 | 103 | 94 |
| 890-226-7 | FS26 | 101 | 94 |
| 890-226-8 | FS27 | 108 | 94 |
| 890-226-9 | FS28 | 98 | 84 |
| 890-226-10 | SW28 | 102 | 93 |
| 890-226-11 | SW29 | 99 | 92 |
| 890-226-12 | SW30 | 105 | 95 |
| 890-226-13 | SW31 | 104 | 96 |
| 890-226-14 | SW32 | 108 | 86 |
| 890-226-15 | SW33 | 105 | 89 |
| 890-226-16 | SW34 | 105 | 92 |
| 890-226-17 | SW35 | 107 | 91 |
| 890-226-18 | SW36 | 104 | 92 |
| 890-226-19 | SW37 | 105 | 94 |
| 890-226-20 | SW38 | 104 | 96 |
| 890-226-21 | SW39 | 105 | 90 |
| 890-226-22 | SW40 | 102 | 93 |
| 890-226-23 | SW41 | 95 | 84 |
| 890-226-24 | SW42 | 105 | 94 |
| 890-226-25 | SW43 | 100 | 86 |
| 890-226-26 | SW44 | 105 | 84 |

Surrogate Legend

BFB = 4-Bromofluorobenzene

DFBZ = 1,4-Difluorobenzene

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Surrogate Summary

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
 SDG: TE012919246

Method: TPH 8015_NM_MOD - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO (70-135) | OTPH (70-135) |
|---------------|------------------|-----------------|------------------|
| 890-226-1 | FS20 | 99 | 112 |
| 890-226-2 | FS21 | 86 | 99 |
| 890-226-3 | FS22 | 85 | 101 |
| 890-226-4 | FS23 | 91 | 99 |
| 890-226-5 | FS24 | 82 | 100 |
| 890-226-6 | FS25 | 76 | 94 |
| 890-226-7 | FS26 | 106 | 123 |
| 890-226-8 | FS27 | 76 | 95 |
| 890-226-9 | FS28 | 85 | 101 |
| 890-226-10 | SW28 | 81 | 91 |
| 890-226-11 | SW29 | 85 | 97 |
| 890-226-12 | SW30 | 81 | 96 |
| 890-226-13 | SW31 | 78 | 90 |
| 890-226-14 | SW32 | 100 | 111 |
| 890-226-15 | SW33 | 92 | 102 |
| 890-226-16 | SW34 | 74 | 82 |
| 890-226-17 | SW35 | 93 | 99 |
| 890-226-18 | SW36 | 86 | 96 |
| 890-226-19 | SW37 | 86 | 99 |
| 890-226-20 | SW38 | 89 | 107 |
| 890-226-21 | SW39 | 97 | 115 |
| 890-226-22 | SW40 | 80 | 88 |
| 890-226-23 | SW41 | 82 | 95 |
| 890-226-24 | SW42 | 85 | 102 |
| 890-226-25 | SW43 | 88 | 113 |
| 890-226-26 | SW44 | 99 | 131 |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method

Lab Sample ID: 7722135-1-BLK
Matrix: SOIL
Analysis Batch: 3151975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3151975_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------------|-----------------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <.002 | U | .002 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:37 | 1 |
| Ethylbenzene | <.002 | U | .002 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:37 | 1 |
| m,p-Xylenes | <.004 | U | .004 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:37 | 1 |
| o-Xylene | <.002 | U | .002 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:37 | 1 |
| Toluene | <.002 | U | .002 | | mg/kg | | 02/26/21 16:30 | 02/26/21 19:37 | 1 |
| Surrogate | %Recovery | BLANK Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene | 95 | | 70 - 130 | | | | 02/26/21 16:30 | 02/26/21 19:37 | 1 |

Lab Sample ID: 7722135-1-BKS
Matrix: SOIL
Analysis Batch: 3151975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3151975_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|---------------|---------------|---------------|-------|---|------|--------------|
| Benzene | .1 | 0.0971 | | mg/kg | | 97 | 70 - 130 |
| Ethylbenzene | .1 | 0.104 | | mg/kg | | 104 | 71 - 129 |
| m,p-Xylenes | .2 | 0.206 | | mg/kg | | 103 | 70 - 135 |
| o-Xylene | .1 | 0.103 | | mg/kg | | 103 | 71 - 133 |
| Toluene | .1 | 0.0942 | | mg/kg | | 94 | 70 - 130 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 4-Bromofluorobenzene | 103 | | 70 - 130 | | | | |

Lab Sample ID: 7722135-1-BSD
Matrix: SOIL
Analysis Batch: 3151975

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3151975_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|----------------|----------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene | .1 | 0.100 | | mg/kg | | 100 | 70 - 130 | 3 | 35 |
| Ethylbenzene | .1 | 0.111 | | mg/kg | | 111 | 71 - 129 | 7 | 35 |
| m,p-Xylenes | .2 | 0.222 | | mg/kg | | 111 | 70 - 135 | 7 | 35 |
| o-Xylene | .1 | 0.112 | | mg/kg | | 112 | 71 - 133 | 8 | 35 |
| Toluene | .1 | 0.0991 | | mg/kg | | 99 | 70 - 130 | 5 | 35 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene | 110 | | 70 - 130 | | | | | | |

Lab Sample ID: 689487-001 S
Matrix: SOIL
Analysis Batch: 3151975

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3151975_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <.00199 | | .1 | 0.0862 | | mg/kg | | 86 | 70 - 130 |
| Ethylbenzene | <.00199 | | .1 | 0.0888 | | mg/kg | | 89 | 71 - 129 |
| m,p-Xylenes | <.00398 | | .2 | 0.177 | | mg/kg | | 89 | 70 - 135 |
| o-Xylene | <.00199 | | .1 | 0.0884 | | mg/kg | | 88 | 71 - 133 |
| Toluene | <.00199 | | .1 | 0.0824 | | mg/kg | | 82 | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 689487-001 S
Matrix: SOIL
Analysis Batch: 3151975

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3151975_P

| Surrogate | %Recovery | MS MS Qualifier | Limits |
|----------------------|-----------|--------------------|----------|
| 4-Bromofluorobenzene | 103 | | 70 - 130 |

Lab Sample ID: 689487-001 SD
Matrix: SOIL
Analysis Batch: 3151975

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3151975_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene | <.00199 | | .0994 | 0.0883 | | mg/kg | | 89 | 70 - 130 | 2 | 35 |
| Ethylbenzene | <.00199 | | .0994 | 0.0920 | | mg/kg | | 93 | 71 - 129 | 4 | 35 |
| m,p-Xylenes | <.00398 | | .199 | 0.183 | | mg/kg | | 92 | 70 - 135 | 3 | 35 |
| o-Xylene | <.00199 | | .0994 | 0.0913 | | mg/kg | | 92 | 71 - 133 | 3 | 35 |
| Toluene | <.00199 | | .0994 | 0.0851 | | mg/kg | | 86 | 70 - 130 | 3 | 35 |

| Surrogate | %Recovery | MSD MSD Qualifier | Limits |
|----------------------|-----------|----------------------|----------|
| 4-Bromofluorobenzene | 105 | | 70 - 130 |

Lab Sample ID: 7722136-1-BLK
Matrix: SOIL
Analysis Batch: 3151976

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3151976_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------------|-----------------|------|-----|-------|---|----------------|----------------|---------|
| Benzene | <.002 | U | .002 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:31 | 1 |
| Ethylbenzene | <.002 | U | .002 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:31 | 1 |
| m,p-Xylenes | <.004 | U | .004 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:31 | 1 |
| o-Xylene | <.002 | U | .002 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:31 | 1 |
| Toluene | <.002 | U | .002 | | mg/kg | | 02/26/21 17:00 | 02/27/21 06:31 | 1 |

| Surrogate | %Recovery | BLANK BLANK Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 101 | | 70 - 130 | 02/26/21 17:00 | 02/27/21 06:31 | 1 |

Lab Sample ID: 7722136-1-BKS
Matrix: SOIL
Analysis Batch: 3151976

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3151976_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene | .1 | 0.0975 | | mg/kg | | 98 | 70 - 130 |
| Ethylbenzene | .1 | 0.101 | | mg/kg | | 101 | 71 - 129 |
| m,p-Xylenes | .2 | 0.201 | | mg/kg | | 101 | 70 - 135 |
| o-Xylene | .1 | 0.102 | | mg/kg | | 102 | 71 - 133 |
| Toluene | .1 | 0.0937 | | mg/kg | | 94 | 70 - 130 |

| Surrogate | %Recovery | LCS LCS Qualifier | Limits |
|----------------------|-----------|----------------------|----------|
| 4-Bromofluorobenzene | 103 | | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 7722136-1-BSD
Matrix: SOIL
Analysis Batch: 3151976

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3151976_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD | | |
|----------------------|------------------|------------------|----------------|-------|---|------|----------|-----|-------|-------|--|
| | | | | | | | | | Limit | Limit | |
| Benzene | .1 | 0.0901 | | mg/kg | | 90 | 70 - 130 | 8 | 35 | | |
| Ethylbenzene | .1 | 0.0964 | | mg/kg | | 96 | 71 - 129 | 5 | 35 | | |
| m,p-Xylenes | .2 | 0.192 | | mg/kg | | 96 | 70 - 135 | 5 | 35 | | |
| o-Xylene | .1 | 0.0973 | | mg/kg | | 97 | 71 - 133 | 5 | 35 | | |
| Toluene | .1 | 0.0871 | | mg/kg | | 87 | 70 - 130 | 7 | 35 | | |
| | | LCSD | LCSD | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene | 106 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 689487-021 S
Matrix: SOIL
Analysis Batch: 3151976

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3151976_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits | RPD | |
|----------------------|------------------|------------------|---------------|-----------|--------------|-------|---|------|----------|-------|-------|
| | | | | | | | | | | Limit | Limit |
| Benzene | <.002 | | .101 | 0.0698 | | mg/kg | | 69 | 70 - 130 | | |
| Ethylbenzene | <.002 | | .101 | 0.0804 | | mg/kg | | 80 | 71 - 129 | | |
| m,p-Xylenes | <.00399 | | .202 | 0.161 | | mg/kg | | 80 | 70 - 135 | | |
| o-Xylene | <.002 | | .101 | 0.0823 | | mg/kg | | 81 | 71 - 133 | | |
| Toluene | <.002 | | .101 | 0.0717 | | mg/kg | | 71 | 70 - 130 | | |
| | | MS | MS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene | 102 | | 70 - 130 | | | | | | | | |

Lab Sample ID: 689487-021 SD
Matrix: SOIL
Analysis Batch: 3151976

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3151976_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | |
|----------------------|------------------|------------------|---------------|------------|---------------|-------|---|------|----------|-------|-------|
| | | | | | | | | | | Limit | Limit |
| Benzene | <.002 | | .0998 | 0.0720 | | mg/kg | | 72 | 70 - 130 | 3 | 35 |
| Ethylbenzene | <.002 | | .0998 | 0.0749 | | mg/kg | | 75 | 71 - 129 | 7 | 35 |
| m,p-Xylenes | <.00399 | | .2 | 0.150 | | mg/kg | | 75 | 70 - 135 | 7 | 35 |
| o-Xylene | <.002 | | .0998 | 0.0759 | | mg/kg | | 76 | 71 - 133 | 8 | 35 |
| Toluene | <.002 | | .0998 | 0.0696 | | mg/kg | | 70 | 70 - 130 | 3 | 35 |
| | | MSD | MSD | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene | 106 | | 70 - 130 | | | | | | | | |

Method: CHLORIDE E300 - General Subcontract Method

Lab Sample ID: 7722118-1-BLK
Matrix: SOIL
Analysis Batch: 3151971

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3151971_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
|----------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|---|
| | | | | | | | | | 1 | 1 |
| Chloride | <5 | U | 5 | | mg/kg | | 02/26/21 17:10 | 02/26/21 20:15 | | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Method: CHLORIDE E300 - General Subcontract Method (Continued)

Lab Sample ID: 7722118-1-BKS
Matrix: SOIL
Analysis Batch: 3151971

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3151971_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250 | 251 | | mg/kg | | 100 | 80 - 120 |

Lab Sample ID: 7722118-1-BSD
Matrix: SOIL
Analysis Batch: 3151971

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3151971_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Chloride | 250 | 250 | | mg/kg | | 100 | 80 - 120 | 0 | 20 |

Lab Sample ID: 689487-006 S
Matrix: SOIL
Analysis Batch: 3151971

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3151971_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 183 | | 248 | 429 | | mg/kg | | 99 | 80 - 120 |

Lab Sample ID: 689487-006 SD
Matrix: SOIL
Analysis Batch: 3151971

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3151971_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Chloride | 183 | | 248 | 429 | | mg/kg | | 99 | 80 - 120 | 0 | 20 |

Lab Sample ID: 689487-016 S
Matrix: SOIL
Analysis Batch: 3151971

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3151971_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 30.5 | | 249 | 303 | | mg/kg | | 109 | 80 - 120 |

Lab Sample ID: 689487-016 SD
Matrix: SOIL
Analysis Batch: 3151971

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3151971_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Chloride | 30.5 | | 249 | 304 | | mg/kg | | 110 | 80 - 120 | 0 | 20 |

Lab Sample ID: 7722119-1-BLK
Matrix: SOIL
Analysis Batch: 3151972

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3151972_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Chloride | <5 | U | 5 | | mg/kg | | 02/26/21 17:30 | 02/26/21 23:11 | 1 |

Lab Sample ID: 7722119-1-BKS
Matrix: SOIL
Analysis Batch: 3151972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3151972_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250 | 253 | | mg/kg | | 101 | 80 - 120 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Method: CHLORIDE E300 - General Subcontract Method

Lab Sample ID: 7722119-1-BSD
Matrix: SOIL
Analysis Batch: 3151972

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3151972_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250 | 252 | | mg/kg | | 101 | 80 - 120 | 0 | 20 |

Lab Sample ID: 689487-026 S
Matrix: SOIL
Analysis Batch: 3151972

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3151972_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 227 | | 251 | 469 | | mg/kg | | 96 | 80 - 120 |

Lab Sample ID: 689487-026 SD
Matrix: SOIL
Analysis Batch: 3151972

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3151972_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 227 | | 251 | 471 | | mg/kg | | 97 | 80 - 120 | 0 | 20 |

Lab Sample ID: 7722116-1-BLK
Matrix: SOIL
Analysis Batch: 3152016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152016_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Chloride | <5 | U | 5 | | mg/kg | | 02/26/21 15:30 | 02/26/21 18:19 | 1 |

Lab Sample ID: 7722116-1-BKS
Matrix: SOIL
Analysis Batch: 3152016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152016_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250 | 259 | | mg/kg | | 104 | 80 - 120 |

Lab Sample ID: 7722116-1-BSD
Matrix: SOIL
Analysis Batch: 3152016

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152016_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250 | 259 | | mg/kg | | 104 | 80 - 120 | 0 | 20 |

Method: TPH 8015_NM_MOD - General Subcontract Method

Lab Sample ID: 7722183-1-BLK
Matrix: SOIL
Analysis Batch: 3152059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152059_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50 | U | 50 | | mg/kg | | 02/27/21 09:00 | 02/27/21 10:53 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50 | U | 50 | | mg/kg | | 02/27/21 09:00 | 02/27/21 10:53 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50 | U | 50 | | mg/kg | | 02/27/21 09:00 | 02/27/21 10:53 | 1 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Lab Sample ID: 7722183-1-BKS
Matrix: SOIL
Analysis Batch: 3152059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152059_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (DRO) | 1000 | 833 | | mg/kg | | 83 | 70 - 135 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 893 | | mg/kg | | 89 | 70 - 135 |

Lab Sample ID: 7722183-1-BSD
Matrix: SOIL
Analysis Batch: 3152059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152059_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO) | 1000 | 833 | | mg/kg | | 83 | 70 - 135 | 0 | 20 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 925 | | mg/kg | | 93 | 70 - 135 | 4 | 20 |

Lab Sample ID: 689487-001 S
Matrix: SOIL
Analysis Batch: 3152059

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152059_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Diesel Range Organics (DRO) | <49.9 | | 998 | 811 | | mg/kg | | 81 | 70 - 135 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | | 998 | 830 | | mg/kg | | 83 | 70 - 135 |

Lab Sample ID: 689487-001 SD
Matrix: SOIL
Analysis Batch: 3152059

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3152059_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO) | <49.9 | | 997 | 917 | | mg/kg | | 92 | 70 - 135 | 12 | 20 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | | 997 | 991 | | mg/kg | | 99 | 70 - 135 | 18 | 20 |

Lab Sample ID: 7722187-1-BLK
Matrix: SOIL
Analysis Batch: 3152063

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152063_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50 | U | 50 | | mg/kg | | 02/27/21 11:00 | 02/27/21 20:26 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50 | U | 50 | | mg/kg | | 02/27/21 11:00 | 02/27/21 20:26 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50 | U | 50 | | mg/kg | | 02/27/21 11:00 | 02/27/21 20:26 | 1 |

Lab Sample ID: 7722187-1-BKS
Matrix: SOIL
Analysis Batch: 3152063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152063_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (DRO) | 1000 | 869 | | mg/kg | | 87 | 70 - 135 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 945 | | mg/kg | | 95 | 70 - 135 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Lab Sample ID: 7722187-1-BSD
Matrix: SOIL
Analysis Batch: 3152063

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152063_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO) | 1000 | 867 | | mg/kg | | 87 | 70 - 135 | 0 | 20 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 944 | | mg/kg | | 94 | 70 - 135 | 0 | 20 |

Lab Sample ID: 7722188-1-BLK
Matrix: SOIL
Analysis Batch: 3152064

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152064_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50 | U | 50 | | mg/kg | | 02/28/21 10:00 | 02/28/21 08:58 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50 | U | 50 | | mg/kg | | 02/28/21 10:00 | 02/28/21 08:58 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50 | U | 50 | | mg/kg | | 02/28/21 10:00 | 02/28/21 08:58 | 1 |

Lab Sample ID: 7722188-1-BKS
Matrix: SOIL
Analysis Batch: 3152064

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152064_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (DRO) | 1000 | 833 | | mg/kg | | 83 | 70 - 135 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 894 | | mg/kg | | 89 | 70 - 135 |

Lab Sample ID: 7722188-1-BSD
Matrix: SOIL
Analysis Batch: 3152064

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152064_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO) | 1000 | 902 | | mg/kg | | 90 | 70 - 135 | 8 | 20 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 964 | | mg/kg | | 96 | 70 - 135 | 8 | 20 |

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Subcontract

Analysis Batch: 3151971

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------------|------------|
| 890-226-6 | FS25 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-7 | FS26 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-8 | FS27 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-9 | FS28 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-10 | SW28 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-11 | SW29 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-12 | SW30 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-13 | SW31 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-14 | SW32 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-15 | SW33 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-16 | SW34 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-17 | SW35 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-18 | SW36 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-19 | SW37 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-20 | SW38 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-21 | SW39 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-22 | SW40 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-23 | SW41 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-24 | SW42 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 890-226-25 | SW43 | Total/NA | Solid | CHLORIDE E300 | 3151971_P |
| 7722118-1-BLK | Method Blank | Total/NA | SOIL | CHLORIDE E300 | 3151971_P |
| 7722118-1-BKS | Lab Control Sample | Total/NA | SOIL | CHLORIDE E300 | 3151971_P |
| 7722118-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | CHLORIDE E300 | 3151971_P |
| 689487-006 S | Matrix Spike | Total/NA | SOIL | CHLORIDE E300 | 3151971_P |
| 689487-006 SD | Matrix Spike Duplicate | Total/NA | SOIL | CHLORIDE E300 | 3151971_P |
| 689487-016 S | Matrix Spike | Total/NA | SOIL | CHLORIDE E300 | 3151971_P |
| 689487-016 SD | Matrix Spike Duplicate | Total/NA | SOIL | CHLORIDE E300 | 3151971_P |

Analysis Batch: 3151972

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------------|------------|
| 890-226-26 | SW44 | Total/NA | Solid | CHLORIDE E300 | 3151972_P |
| 7722119-1-BLK | Method Blank | Total/NA | SOIL | CHLORIDE E300 | 3151972_P |
| 7722119-1-BKS | Lab Control Sample | Total/NA | SOIL | CHLORIDE E300 | 3151972_P |
| 7722119-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | CHLORIDE E300 | 3151972_P |
| 689487-026 S | Matrix Spike | Total/NA | SOIL | CHLORIDE E300 | 3151972_P |
| 689487-026 SD | Matrix Spike Duplicate | Total/NA | SOIL | CHLORIDE E300 | 3151972_P |

Analysis Batch: 3151975

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 890-226-1 | FS20 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-2 | FS21 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-3 | FS22 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-4 | FS23 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-5 | FS24 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-6 | FS25 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-7 | FS26 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-8 | FS27 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-9 | FS28 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-10 | SW28 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-11 | SW29 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-12 | SW30 | Total/NA | Solid | BTEX 8021 | 3151975_P |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-226-1
SDG: TE012919246

Subcontract (Continued)

Analysis Batch: 3151975 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------|------------|
| 890-226-13 | SW31 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-14 | SW32 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-15 | SW33 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-16 | SW34 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-17 | SW35 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-18 | SW36 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-19 | SW37 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 890-226-20 | SW38 | Total/NA | Solid | BTEX 8021 | 3151975_P |
| 7722135-1-BLK | Method Blank | Total/NA | SOIL | BTEX 8021 | 3151975_P |
| 7722135-1-BKS | Lab Control Sample | Total/NA | SOIL | BTEX 8021 | 3151975_P |
| 7722135-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | BTEX 8021 | 3151975_P |
| 689487-001 S | Matrix Spike | Total/NA | SOIL | BTEX 8021 | 3151975_P |
| 689487-001 SD | Matrix Spike Duplicate | Total/NA | SOIL | BTEX 8021 | 3151975_P |

Analysis Batch: 3151976

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------|------------|
| 890-226-21 | SW39 | Total/NA | Solid | BTEX 8021 | 3151976_P |
| 890-226-22 | SW40 | Total/NA | Solid | BTEX 8021 | 3151976_P |
| 890-226-23 | SW41 | Total/NA | Solid | BTEX 8021 | 3151976_P |
| 890-226-24 | SW42 | Total/NA | Solid | BTEX 8021 | 3151976_P |
| 890-226-25 | SW43 | Total/NA | Solid | BTEX 8021 | 3151976_P |
| 890-226-26 | SW44 | Total/NA | Solid | BTEX 8021 | 3151976_P |
| 7722136-1-BLK | Method Blank | Total/NA | SOIL | BTEX 8021 | 3151976_P |
| 7722136-1-BKS | Lab Control Sample | Total/NA | SOIL | BTEX 8021 | 3151976_P |
| 7722136-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | BTEX 8021 | 3151976_P |
| 689487-021 S | Matrix Spike | Total/NA | SOIL | BTEX 8021 | 3151976_P |
| 689487-021 SD | Matrix Spike Duplicate | Total/NA | SOIL | BTEX 8021 | 3151976_P |

Analysis Batch: 3152016

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------------|------------|
| 890-226-1 | FS20 | Total/NA | Solid | CHLORIDE E300 | 3152016_P |
| 890-226-2 | FS21 | Total/NA | Solid | CHLORIDE E300 | 3152016_P |
| 890-226-3 | FS22 | Total/NA | Solid | CHLORIDE E300 | 3152016_P |
| 890-226-4 | FS23 | Total/NA | Solid | CHLORIDE E300 | 3152016_P |
| 890-226-5 | FS24 | Total/NA | Solid | CHLORIDE E300 | 3152016_P |
| 7722116-1-BLK | Method Blank | Total/NA | SOIL | CHLORIDE E300 | 3152016_P |
| 7722116-1-BKS | Lab Control Sample | Total/NA | SOIL | CHLORIDE E300 | 3152016_P |
| 7722116-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | CHLORIDE E300 | 3152016_P |

Analysis Batch: 3152059

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-226-1 | FS20 | Total/NA | Solid | TPH | 3152059_P |
| 890-226-2 | FS21 | Total/NA | Solid | TPH | 3152059_P |
| 890-226-3 | FS22 | Total/NA | Solid | TPH | 3152059_P |
| 890-226-4 | FS23 | Total/NA | Solid | TPH | 3152059_P |
| 890-226-5 | FS24 | Total/NA | Solid | TPH | 3152059_P |
| 890-226-6 | FS25 | Total/NA | Solid | TPH | 3152059_P |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-226-1
SDG: TE012919246

Subcontract (Continued)

Analysis Batch: 3152059 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|--------------------|------------|
| 890-226-7 | FS26 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-8 | FS27 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-9 | FS28 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-10 | SW28 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-11 | SW29 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-12 | SW30 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-13 | SW31 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-14 | SW32 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-15 | SW33 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-16 | SW34 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-17 | SW35 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-18 | SW36 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-19 | SW37 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 890-226-20 | SW38 | Total/NA | Solid | TPH 8015_NM_MOD | 3152059_P |
| 7722183-1-BLK | Method Blank | Total/NA | SOIL | TPH 8015_NM_MOD | 3152059_P |
| 7722183-1-BKS | Lab Control Sample | Total/NA | SOIL | TPH 8015_NM_MOD | 3152059_P |
| 7722183-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | TPH 8015_NM_MOD | 3152059_P |
| 689487-001 S | Matrix Spike | Total/NA | SOIL | TPH 8015_NM_MOD | 3152059_P |
| 689487-001 SD | Matrix Spike Duplicate | Total/NA | SOIL | TPH 8015_NM_MOD | 3152059_P |

Analysis Batch: 3152063

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|--------------------|------------|
| 890-226-21 | SW39 | Total/NA | Solid | TPH 8015_NM_MOD | 3152063_P |
| 890-226-22 | SW40 | Total/NA | Solid | TPH 8015_NM_MOD | 3152063_P |
| 890-226-23 | SW41 | Total/NA | Solid | TPH 8015_NM_MOD | 3152063_P |
| 890-226-24 | SW42 | Total/NA | Solid | TPH 8015_NM_MOD | 3152063_P |
| 7722187-1-BLK | Method Blank | Total/NA | SOIL | TPH 8015_NM_MOD | 3152063_P |
| 7722187-1-BKS | Lab Control Sample | Total/NA | SOIL | TPH 8015_NM_MOD | 3152063_P |
| 7722187-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | TPH 8015_NM_MOD | 3152063_P |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Subcontract

Analysis Batch: 3152064

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|--------------------|------------|
| 890-226-25 | SW43 | Total/NA | Solid | TPH 8015_NM_MOD | 3152064_P |
| 890-226-26 | SW44 | Total/NA | Solid | TPH 8015_NM_MOD | 3152064_P |
| 7722188-1-BLK | Method Blank | Total/NA | SOIL | TPH 8015_NM_MOD | 3152064_P |
| 7722188-1-BKS | Lab Control Sample | Total/NA | SOIL | TPH 8015_NM_MOD | 3152064_P |
| 7722188-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | TPH 8015_NM_MOD | 3152064_P |

Prep Batch: 3151971_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-226-6 | FS25 | Total/NA | Solid | E300P | |
| 890-226-7 | FS26 | Total/NA | Solid | E300P | |
| 890-226-8 | FS27 | Total/NA | Solid | E300P | |
| 890-226-9 | FS28 | Total/NA | Solid | E300P | |
| 890-226-10 | SW28 | Total/NA | Solid | E300P | |
| 890-226-11 | SW29 | Total/NA | Solid | E300P | |
| 890-226-12 | SW30 | Total/NA | Solid | E300P | |
| 890-226-13 | SW31 | Total/NA | Solid | E300P | |
| 890-226-14 | SW32 | Total/NA | Solid | E300P | |
| 890-226-15 | SW33 | Total/NA | Solid | E300P | |
| 890-226-16 | SW34 | Total/NA | Solid | E300P | |
| 890-226-17 | SW35 | Total/NA | Solid | E300P | |
| 890-226-18 | SW36 | Total/NA | Solid | E300P | |
| 890-226-19 | SW37 | Total/NA | Solid | E300P | |
| 890-226-20 | SW38 | Total/NA | Solid | E300P | |
| 890-226-21 | SW39 | Total/NA | Solid | E300P | |
| 890-226-22 | SW40 | Total/NA | Solid | E300P | |
| 890-226-23 | SW41 | Total/NA | Solid | E300P | |
| 890-226-24 | SW42 | Total/NA | Solid | E300P | |
| 890-226-25 | SW43 | Total/NA | Solid | E300P | |
| 7722118-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722118-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722118-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 689487-006 S | Matrix Spike | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 689487-006 SD | Matrix Spike Duplicate | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 689487-016 S | Matrix Spike | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 689487-016 SD | Matrix Spike Duplicate | Total/NA | SOIL | ***DEFAULT PREP*** | |

Prep Batch: 3151972_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|--------------------|-----------|--------|-----------------------|------------|
| 890-226-26 | SW44 | Total/NA | Solid | E300P | |
| 7722119-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722119-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Subcontract (Continued)

Prep Batch: 3151972_P (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 7722119-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 689487-026 S | Matrix Spike | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 689487-026 SD | Matrix Spike Duplicate | Total/NA | SOIL | ***DEFAULT PREP*** | |

Prep Batch: 3151975_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------|------------|
| 890-226-1 | FS20 | Total/NA | Solid | SW5035A | |
| 890-226-2 | FS21 | Total/NA | Solid | SW5035A | |
| 890-226-3 | FS22 | Total/NA | Solid | SW5035A | |
| 890-226-4 | FS23 | Total/NA | Solid | SW5035A | |
| 890-226-5 | FS24 | Total/NA | Solid | SW5035A | |
| 890-226-6 | FS25 | Total/NA | Solid | SW5035A | |
| 890-226-7 | FS26 | Total/NA | Solid | SW5035A | |
| 890-226-8 | FS27 | Total/NA | Solid | SW5035A | |
| 890-226-9 | FS28 | Total/NA | Solid | SW5035A | |
| 890-226-10 | SW28 | Total/NA | Solid | SW5035A | |
| 890-226-11 | SW29 | Total/NA | Solid | SW5035A | |
| 890-226-12 | SW30 | Total/NA | Solid | SW5035A | |
| 890-226-13 | SW31 | Total/NA | Solid | SW5035A | |
| 890-226-14 | SW32 | Total/NA | Solid | SW5035A | |
| 890-226-15 | SW33 | Total/NA | Solid | SW5035A | |
| 890-226-16 | SW34 | Total/NA | Solid | SW5035A | |
| 890-226-17 | SW35 | Total/NA | Solid | SW5035A | |
| 890-226-18 | SW36 | Total/NA | Solid | SW5035A | |
| 890-226-19 | SW37 | Total/NA | Solid | SW5035A | |
| 890-226-20 | SW38 | Total/NA | Solid | SW5035A | |
| 7722135-1-BLK | Method Blank | Total/NA | SOIL | SW5035A | |
| 7722135-1-BKS | Lab Control Sample | Total/NA | SOIL | SW5035A | |
| 7722135-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | SW5035A | |
| 689487-001 S | Matrix Spike | Total/NA | SOIL | SW5035A | |
| 689487-001 SD | Matrix Spike Duplicate | Total/NA | SOIL | SW5035A | |

Prep Batch: 3151976_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------|------------|
| 890-226-21 | SW39 | Total/NA | Solid | SW5035A | |
| 890-226-22 | SW40 | Total/NA | Solid | SW5035A | |
| 890-226-23 | SW41 | Total/NA | Solid | SW5035A | |
| 890-226-24 | SW42 | Total/NA | Solid | SW5035A | |
| 890-226-25 | SW43 | Total/NA | Solid | SW5035A | |
| 890-226-26 | SW44 | Total/NA | Solid | SW5035A | |
| 7722136-1-BLK | Method Blank | Total/NA | SOIL | SW5035A | |
| 7722136-1-BKS | Lab Control Sample | Total/NA | SOIL | SW5035A | |
| 7722136-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | SW5035A | |
| 689487-021 S | Matrix Spike | Total/NA | SOIL | SW5035A | |
| 689487-021 SD | Matrix Spike Duplicate | Total/NA | SOIL | SW5035A | |

Prep Batch: 3152016_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-226-1 | FS20 | Total/NA | Solid | E300P | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Subcontract (Continued)

Prep Batch: 3152016_P (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-226-2 | FS21 | Total/NA | Solid | E300P | |
| 890-226-3 | FS22 | Total/NA | Solid | E300P | |
| 890-226-4 | FS23 | Total/NA | Solid | E300P | |
| 890-226-5 | FS24 | Total/NA | Solid | E300P | |
| 7722116-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722116-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722116-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |

Prep Batch: 3152059_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-226-1 | FS20 | Total/NA | Solid | SW8015P | |
| 890-226-2 | FS21 | Total/NA | Solid | SW8015P | |
| 890-226-3 | FS22 | Total/NA | Solid | SW8015P | |
| 890-226-4 | FS23 | Total/NA | Solid | SW8015P | |
| 890-226-5 | FS24 | Total/NA | Solid | SW8015P | |
| 890-226-6 | FS25 | Total/NA | Solid | SW8015P | |
| 890-226-7 | FS26 | Total/NA | Solid | SW8015P | |
| 890-226-8 | FS27 | Total/NA | Solid | SW8015P | |
| 890-226-9 | FS28 | Total/NA | Solid | SW8015P | |
| 890-226-10 | SW28 | Total/NA | Solid | SW8015P | |
| 890-226-11 | SW29 | Total/NA | Solid | SW8015P | |
| 890-226-12 | SW30 | Total/NA | Solid | SW8015P | |
| 890-226-13 | SW31 | Total/NA | Solid | SW8015P | |
| 890-226-14 | SW32 | Total/NA | Solid | SW8015P | |
| 890-226-15 | SW33 | Total/NA | Solid | SW8015P | |
| 890-226-16 | SW34 | Total/NA | Solid | SW8015P | |
| 890-226-17 | SW35 | Total/NA | Solid | SW8015P | |
| 890-226-18 | SW36 | Total/NA | Solid | SW8015P | |
| 890-226-19 | SW37 | Total/NA | Solid | SW8015P | |
| 890-226-20 | SW38 | Total/NA | Solid | SW8015P | |
| 7722183-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722183-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722183-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 689487-001 S | Matrix Spike | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 689487-001 SD | Matrix Spike Duplicate | Total/NA | SOIL | ***DEFAULT PREP*** | |

Prep Batch: 3152063_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|--------------------|-----------|--------|-----------------------|------------|
| 890-226-21 | SW39 | Total/NA | Solid | SW8015P | |
| 890-226-22 | SW40 | Total/NA | Solid | SW8015P | |
| 890-226-23 | SW41 | Total/NA | Solid | SW8015P | |
| 890-226-24 | SW42 | Total/NA | Solid | SW8015P | |
| 7722187-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722187-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
 SDG: TE012919246

Subcontract (Continued)

Prep Batch: 3152063_P (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 7722187-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |

Prep Batch: 3152064_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-226-25 | SW43 | Total/NA | Solid | SW8015P | |
| 890-226-26 | SW44 | Total/NA | Solid | SW8015P | |
| 7722188-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722188-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722188-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |

- 1
- 2
- 3
- 4
- 5
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- 7
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- 11
- 12
- 13
- 14

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: FS20
Date Collected: 02/24/21 09:33
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-1
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 19:59 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152016_P | 02/26/21 15:30 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152016 | 02/26/21 20:41 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 11:56 | ARM | XM |

Client Sample ID: FS21
Date Collected: 02/24/21 09:34
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-2
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 20:19 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152016_P | 02/26/21 15:30 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152016 | 02/26/21 20:46 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 13:00 | ARM | XM |

Client Sample ID: FS22
Date Collected: 02/24/21 09:36
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-3
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 20:40 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152016_P | 02/26/21 15:30 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 5 | 3152016 | 02/26/21 20:52 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 13:22 | ARM | XM |

Client Sample ID: FS23
Date Collected: 02/24/21 09:37
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-4
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 21:00 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152016_P | 02/26/21 15:30 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 5 | 3152016 | 02/26/21 20:57 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 13:43 | ARM | XM |

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: FS24

Lab Sample ID: 890-226-5

Date Collected: 02/24/21 11:15

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 21:21 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152016_P | 02/26/21 15:30 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 10 | 3152016 | 02/26/21 21:03 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 14:04 | ARM | XM |

Client Sample ID: FS25

Lab Sample ID: 890-226-6

Date Collected: 02/24/21 11:17

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 21:41 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 20:31 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 14:25 | ARM | XM |

Client Sample ID: FS26

Lab Sample ID: 890-226-7

Date Collected: 02/24/21 11:18

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 22:01 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 20:47 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 14:47 | ARM | XM |

Client Sample ID: FS27

Lab Sample ID: 890-226-8

Date Collected: 02/24/21 11:19

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 22:22 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 20:53 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 15:08 | ARM | XM |

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: FS28
Date Collected: 02/24/21 12:26
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-9
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 22:42 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 20:58 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 15:29 | ARM | XM |

Client Sample ID: SW28
Date Collected: 02/24/21 09:31
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-10
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/26/21 23:03 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 21:03 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 15:50 | ARM | XM |

Client Sample ID: SW29
Date Collected: 02/24/21 09:39
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-11
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 00:26 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 21:19 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 16:33 | ARM | XM |

Client Sample ID: SW30
Date Collected: 02/24/21 09:40
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-12
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 00:46 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 21:25 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 16:55 | ARM | XM |

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW31

Lab Sample ID: 890-226-13

Date Collected: 02/24/21 09:41

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 01:06 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 21:30 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 17:16 | ARM | XM |

Client Sample ID: SW32

Lab Sample ID: 890-226-14

Date Collected: 02/24/21 09:42

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 01:27 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 21:35 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 17:37 | ARM | XM |

Client Sample ID: SW33

Lab Sample ID: 890-226-15

Date Collected: 02/24/21 11:22

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 01:47 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 21:41 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 17:59 | ARM | XM |

Client Sample ID: SW34

Lab Sample ID: 890-226-16

Date Collected: 02/24/21 11:24

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 02:08 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 21:46 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 18:20 | ARM | XM |

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW35
Date Collected: 02/24/21 11:25
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-17
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 02:28 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 22:02 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 18:41 | ARM | XM |

Client Sample ID: SW36
Date Collected: 02/24/21 11:26
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-18
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 02:48 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 5 | 3151971 | 02/26/21 22:07 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 19:02 | ARM | XM |

Client Sample ID: SW37
Date Collected: 02/24/21 11:27
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-19
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 03:09 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 22:23 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 19:23 | ARM | XM |

Client Sample ID: SW38
Date Collected: 02/24/21 11:29
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-20
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151975_P | 02/26/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151975 | 02/27/21 03:29 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 5 | 3151971 | 02/26/21 22:28 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152059_P | 02/27/21 09:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152059 | 02/27/21 19:44 | ARM | XM |

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Client Sample ID: SW39

Lab Sample ID: 890-226-21

Date Collected: 02/24/21 11:30

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151976_P | 02/26/21 17:00 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151976 | 02/27/21 06:52 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 22:34 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152063_P | 02/27/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152063 | 02/28/21 03:28 | ARM | XM |

Client Sample ID: SW40

Lab Sample ID: 890-226-22

Date Collected: 02/24/21 12:28

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151976_P | 02/26/21 17:00 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151976 | 02/27/21 07:13 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 22:39 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152063_P | 02/27/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152063 | 02/28/21 03:49 | ARM | XM |

Client Sample ID: SW41

Lab Sample ID: 890-226-23

Date Collected: 02/24/21 12:30

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151976_P | 02/26/21 17:00 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151976 | 02/27/21 07:33 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 22:44 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152063_P | 02/27/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152063 | 02/28/21 04:10 | ARM | XM |

Client Sample ID: SW42

Lab Sample ID: 890-226-24

Date Collected: 02/24/21 11:33

Matrix: Solid

Date Received: 02/24/21 15:50

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151976_P | 02/26/21 17:00 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151976 | 02/27/21 07:54 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 22:50 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152063_P | 02/27/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152063 | 02/28/21 04:32 | ARM | XM |

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Lab Chronicle

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
 SDG: TE012919246

Client Sample ID: SW43
Date Collected: 02/24/21 11:32
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-25
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151976_P | 02/26/21 17:00 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151976 | 02/27/21 08:14 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151971_P | 02/26/21 17:10 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151971 | 02/26/21 22:55 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152064_P | 02/28/21 10:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152064 | 02/28/21 18:09 | ARM | XM |

Client Sample ID: SW44
Date Collected: 02/24/21 11:31
Date Received: 02/24/21 15:50

Lab Sample ID: 890-226-26
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3151976_P | 02/26/21 17:00 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3151976 | 02/27/21 08:35 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3151972_P | 02/26/21 17:30 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3151972 | 02/26/21 23:27 | CHE | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152064_P | 02/28/21 10:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152064 | 02/28/21 18:31 | ARM | XM |

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-20-21 | 06-30-21 |

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Method Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
SDG: TE012919246

| Method | Method Description | Protocol | Laboratory |
|-------------|--------------------|----------|------------|
| Subcontract | BTEX 8021 | None | XM |
| Subcontract | CHLORIDE E300 | None | XM |
| Subcontract | TPH 8015_NM_MOD | None | XM |

Protocol References:

None = None

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-226-1
 SDG: TE012919246

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 890-226-1 | FS20 | Solid | 02/24/21 09:33 | 02/24/21 15:50 | |
| 890-226-2 | FS21 | Solid | 02/24/21 09:34 | 02/24/21 15:50 | |
| 890-226-3 | FS22 | Solid | 02/24/21 09:36 | 02/24/21 15:50 | |
| 890-226-4 | FS23 | Solid | 02/24/21 09:37 | 02/24/21 15:50 | |
| 890-226-5 | FS24 | Solid | 02/24/21 11:15 | 02/24/21 15:50 | |
| 890-226-6 | FS25 | Solid | 02/24/21 11:17 | 02/24/21 15:50 | |
| 890-226-7 | FS26 | Solid | 02/24/21 11:18 | 02/24/21 15:50 | |
| 890-226-8 | FS27 | Solid | 02/24/21 11:19 | 02/24/21 15:50 | |
| 890-226-9 | FS28 | Solid | 02/24/21 12:26 | 02/24/21 15:50 | |
| 890-226-10 | SW28 | Solid | 02/24/21 09:31 | 02/24/21 15:50 | |
| 890-226-11 | SW29 | Solid | 02/24/21 09:39 | 02/24/21 15:50 | |
| 890-226-12 | SW30 | Solid | 02/24/21 09:40 | 02/24/21 15:50 | |
| 890-226-13 | SW31 | Solid | 02/24/21 09:41 | 02/24/21 15:50 | |
| 890-226-14 | SW32 | Solid | 02/24/21 09:42 | 02/24/21 15:50 | |
| 890-226-15 | SW33 | Solid | 02/24/21 11:22 | 02/24/21 15:50 | |
| 890-226-16 | SW34 | Solid | 02/24/21 11:24 | 02/24/21 15:50 | |
| 890-226-17 | SW35 | Solid | 02/24/21 11:25 | 02/24/21 15:50 | |
| 890-226-18 | SW36 | Solid | 02/24/21 11:26 | 02/24/21 15:50 | |
| 890-226-19 | SW37 | Solid | 02/24/21 11:27 | 02/24/21 15:50 | |
| 890-226-20 | SW38 | Solid | 02/24/21 11:29 | 02/24/21 15:50 | |
| 890-226-21 | SW39 | Solid | 02/24/21 11:30 | 02/24/21 15:50 | |
| 890-226-22 | SW40 | Solid | 02/24/21 12:28 | 02/24/21 15:50 | |
| 890-226-23 | SW41 | Solid | 02/24/21 12:30 | 02/24/21 15:50 | |
| 890-226-24 | SW42 | Solid | 02/24/21 11:33 | 02/24/21 15:50 | |
| 890-226-25 | SW43 | Solid | 02/24/21 11:32 | 02/24/21 15:50 | |
| 890-226-26 | SW44 | Solid | 02/24/21 11:31 | 02/24/21 15:50 | |

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-226-1
SDG Number: TE012919246

Login Number: 226
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | 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
America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-257-1
Laboratory Sample Delivery Group: TE012919246
Client Project/Site: PLU 89 SWD Line
Revision: 1

For:
WSP USA Inc.
2777 N. Stemmons Freeway
Suite 1600
Dallas, Texas 75207

Attn: Dan Moir

Authorized for release by:
3/22/2021 3:22:35 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

Review your project
results through
Total Access

Have a Question?



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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Laboratory Job ID: 890-257-1
SDG: TE012919246

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Qualifiers

Subcontract

| Qualifier | Qualifier Description |
|-----------|---|
| U | Analyte was not detected. |
| X | MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference |

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Job ID: 890-257-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-257-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 3/8/2021. The report (revision 1) is being revised due to: Per Client email - corrected sample IDs
SW44 to SW45
SW45 to SW46.

Receipt

The samples were received on 3/4/2021 1:18 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 was 1.6° C.

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Client Sample ID: PH01
Date Collected: 03/04/21 08:45
Date Received: 03/04/21 13:18

Lab Sample ID: 890-257-1
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| m,p-Xylenes | <0.00400 | U | 0.00400 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:03 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 79 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 12:03 | 1 |
| 4-Bromofluorobenzene | 116 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 12:03 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 10.3 | | 4.98 | | mg/kg | | 03/06/21 14:20 | 03/06/21 16:51 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 22:17 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 22:17 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 22:17 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 22:17 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 135 | 03/06/21 11:00 | 03/06/21 22:17 | 1 |
| o-Terphenyl | 81 | | 70 - 135 | 03/06/21 11:00 | 03/06/21 22:17 | 1 |

Client Sample ID: PH01 A
Date Collected: 03/04/21 09:00
Date Received: 03/04/21 13:18

Lab Sample ID: 890-257-2
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:23 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 100 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 12:23 | 1 |
| 4-Bromofluorobenzene | 107 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 12:23 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | <4.96 | U | 4.96 | | mg/kg | | 03/06/21 14:20 | 03/06/21 16:57 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246

Client Sample ID: PH01 A

Lab Sample ID: 890-257-2

Date Collected: 03/04/21 09:00

Matrix: Solid

Date Received: 03/04/21 13:18

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 135 | | | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |
| o-Terphenyl | 86 | | 70 - 135 | | | | 03/06/21 11:00 | 03/06/21 23:20 | 1 |

Client Sample ID: PH02

Lab Sample ID: 890-257-3

Date Collected: 03/04/21 09:10

Matrix: Solid

Date Received: 03/04/21 13:18

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| m,p-Xylenes | <0.00404 | U | 0.00404 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Total Xylenes | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 98 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |
| 4-Bromofluorobenzene | 111 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 12:44 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 94.1 | | 4.95 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:14 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 135 | | | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |
| o-Terphenyl | 86 | | 70 - 135 | | | | 03/06/21 11:00 | 03/06/21 23:41 | 1 |

Client Sample ID: PH02 A

Lab Sample ID: 890-257-4

Date Collected: 03/04/21 09:25

Matrix: Solid

Date Received: 03/04/21 13:18

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246

Client Sample ID: PH02 A

Lab Sample ID: 890-257-4

Date Collected: 03/04/21 09:25

Matrix: Solid

Date Received: 03/04/21 13:18

Method: BTEX 8021 - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Total BTEX | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| Total Xylenes | <0.00199 | U | 0.00199 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 92 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |
| 4-Bromofluorobenzene | 113 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 13:04 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 17.4 | | 5.02 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:20 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 85 | | 70 - 135 | | | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |
| o-Terphenyl | 84 | | 70 - 135 | | | | 03/06/21 11:00 | 03/07/21 00:02 | 1 |

Client Sample ID: SW45

Lab Sample ID: 890-257-5

Date Collected: 03/04/21 09:40

Matrix: Solid

Date Received: 03/04/21 13:18

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| m,p-Xylenes | <0.00397 | U | 0.00397 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Toluene | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Total BTEX | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Total Xylenes | <0.00198 | U | 0.00198 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,4-Difluorobenzene | 95 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |
| 4-Bromofluorobenzene | 108 | | 70 - 130 | | | | 03/06/21 08:15 | 03/07/21 13:24 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 123 | | 5.05 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:26 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:22 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:22 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:22 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:22 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246Client Sample ID: SW45
Date Collected: 03/04/21 09:40
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-5
Matrix: Solid

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 88 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 00:22 | 1 |
| o-Terphenyl | 90 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 00:22 | 1 |

Client Sample ID: SW46
Date Collected: 03/04/21 11:15
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-6
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 13:45 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 87 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 13:45 | 1 |
| 4-Bromofluorobenzene | 108 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 13:45 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 22.2 | | 5.05 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:31 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:43 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:43 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:43 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 00:43 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 84 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 00:43 | 1 |
| o-Terphenyl | 85 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 00:43 | 1 |

Client Sample ID: PH03
Date Collected: 03/04/21 10:15
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-7
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| m,p-Xylenes | <0.00399 | U | 0.00399 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| Total BTEX | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |
| Total Xylenes | <0.00200 | U | 0.00200 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 92 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 14:05 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246Client Sample ID: PH03
Date Collected: 03/04/21 10:15
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-7
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 104 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 14:05 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 16.5 | | 5.05 | | mg/kg | | 03/06/21 14:20 | 03/06/21 17:37 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:04 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:04 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:04 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:04 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 82 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:04 | 1 |
| o-Terphenyl | 80 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:04 | 1 |

Client Sample ID: PH03 A
Date Collected: 03/04/21 10:30
Date Received: 03/04/21 13:18Lab Sample ID: 890-257-8
Matrix: Solid

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| Total Xylenes | <0.00202 | U | 0.00202 | | mg/kg | | 03/06/21 08:15 | 03/07/21 14:26 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 93 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 14:26 | 1 |
| 4-Bromofluorobenzene | 103 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 14:26 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 117 | | 4.96 | | mg/kg | | 03/06/21 14:30 | 03/06/21 14:42 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:25 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:25 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:25 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:25 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 102 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:25 | 1 |
| o-Terphenyl | 102 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:25 | 1 |

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Client Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246

Client Sample ID: BH05 A

Lab Sample ID: 890-257-9

Date Collected: 03/04/21 10:05

Matrix: Solid

Date Received: 03/04/21 13:18

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U X | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| m,p-Xylenes | <0.00398 | U | 0.00398 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| o-Xylene | <0.00199 | U X | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| Toluene | <0.00199 | U X | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| Total BTEX | <0.00199 | U | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| Total Xylenes | <0.00199 | U | 0.00199 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 102 | | 70 - 130 | 03/05/21 16:30 | 03/05/21 21:28 | 1 |
| 4-Bromofluorobenzene | 101 | | 70 - 130 | 03/05/21 16:30 | 03/05/21 21:28 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 21.8 | | 4.97 | | mg/kg | | 03/06/21 14:30 | 03/06/21 14:57 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:46 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:46 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:46 | 1 |
| Total TPH | <49.9 | U | 49.9 | | mg/kg | | 03/06/21 11:00 | 03/07/21 01:46 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 84 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:46 | 1 |
| o-Terphenyl | 84 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 01:46 | 1 |

Client Sample ID: BH06 A

Lab Sample ID: 890-257-10

Date Collected: 03/04/21 10:40

Matrix: Solid

Date Received: 03/04/21 13:18

Method: BTEX 8021 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| m,p-Xylenes | <0.00403 | U | 0.00403 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| Total BTEX | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| Total Xylenes | <0.00202 | U | 0.00202 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene | 103 | | 70 - 130 | 03/05/21 16:30 | 03/05/21 21:48 | 1 |
| 4-Bromofluorobenzene | 112 | | 70 - 130 | 03/05/21 16:30 | 03/05/21 21:48 | 1 |

Method: CHLORIDE E300 - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Chloride | 361 | | 5.01 | | mg/kg | | 03/06/21 14:30 | 03/06/21 15:02 | 1 |

Method: TPH 8015_NM_MOD - General Subcontract Method

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 02:07 | 1 |

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
 SDG: TE012919246

Client Sample ID: BH06 A
Date Collected: 03/04/21 10:40
Date Received: 03/04/21 13:18

Lab Sample ID: 890-257-10
Matrix: Solid

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Hydrocarbons (GRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 02:07 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 02:07 | 1 |
| Total TPH | <50.0 | U | 50.0 | | mg/kg | | 03/06/21 11:00 | 03/07/21 02:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 97 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 02:07 | 1 |
| o-Terphenyl | 98 | | 70 - 135 | 03/06/21 11:00 | 03/07/21 02:07 | 1 |

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method

Matrix: SOIL

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) |
|---------------|------------------------|-----------------|
| 690433-009 S | Matrix Spike | 103 |
| 690433-009 SD | Matrix Spike Duplicate | 105 |
| 7722663-1-BKS | Lab Control Sample | 90 |
| 7722663-1-BLK | Method Blank | 104 |
| 7722663-1-BSD | Lab Control Sample Dup | 101 |
| 7722710-1-BKS | Lab Control Sample | 104 |
| 7722710-1-BLK | Method Blank | 97 |
| 7722710-1-BSD | Lab Control Sample Dup | 96 |

Surrogate Legend

BFB = 4-Bromofluorobenzene

Method: BTEX 8021 - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) | DFBZ (70-130) |
|---------------|------------------|-----------------|------------------|
| 890-257-1 | PH01 | 116 | 79 |
| 890-257-2 | PH01 A | 107 | 100 |
| 890-257-3 | PH02 | 111 | 98 |
| 890-257-4 | PH02 A | 113 | 92 |
| 890-257-5 | SW45 | 108 | 95 |
| 890-257-6 | SW46 | 108 | 87 |
| 890-257-7 | PH03 | 104 | 92 |
| 890-257-8 | PH03 A | 103 | 93 |
| 890-257-9 | BH05 A | 101 | 102 |
| 890-257-10 | BH06 A | 112 | 103 |

Surrogate Legend

BFB = 4-Bromofluorobenzene

DFBZ = 1,4-Difluorobenzene

Method: TPH 8015_NM_MOD - General Subcontract Method

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO (70-135) | OTPH (70-135) |
|---------------|------------------|-----------------|------------------|
| 890-257-1 | PH01 | 82 | 81 |
| 890-257-2 | PH01 A | 85 | 86 |
| 890-257-3 | PH02 | 85 | 86 |
| 890-257-4 | PH02 A | 85 | 84 |
| 890-257-5 | SW45 | 88 | 90 |
| 890-257-6 | SW46 | 84 | 85 |
| 890-257-7 | PH03 | 82 | 80 |
| 890-257-8 | PH03 A | 102 | 102 |
| 890-257-9 | BH05 A | 84 | 84 |
| 890-257-10 | BH06 A | 97 | 98 |

Surrogate Legend

1CO = 1-Chlorooctane

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line
OTPH = o-Terphenyl

Job ID: 890-257-1
SDG: TE012919246

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method

Lab Sample ID: 7722663-1-BLK
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------------|-----------------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene | <.002 | U | .002 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| Ethylbenzene | <.002 | U | .002 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| m,p-Xylenes | <.004 | U | .004 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| o-Xylene | <.002 | U | .002 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| Toluene | <.002 | U | .002 | | mg/kg | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |
| Surrogate | BLANK %Recovery | BLANK Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene | 104 | | 70 - 130 | | | | 03/05/21 16:30 | 03/05/21 21:06 | 1 |

Lab Sample ID: 7722663-1-BKS
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | %Rec. |
|----------------------|---------------|---------------|---------------|-------|---|------|----------|-------|
| Benzene | .1 | 0.0989 | | mg/kg | | 99 | 70 - 130 | |
| Ethylbenzene | .1 | 0.0932 | | mg/kg | | 93 | 71 - 129 | |
| m,p-Xylenes | .2 | 0.183 | | mg/kg | | 92 | 70 - 135 | |
| o-Xylene | .1 | 0.0938 | | mg/kg | | 94 | 71 - 133 | |
| Toluene | .1 | 0.104 | | mg/kg | | 104 | 70 - 130 | |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | | |
| 4-Bromofluorobenzene | 90 | | 70 - 130 | | | | | |

Lab Sample ID: 7722663-1-BSD
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------------------|----------------|----------------|----------------|-------|---|------|----------|-----|-------|
| Benzene | .1 | 0.0877 | | mg/kg | | 88 | 70 - 130 | 12 | 35 |
| Ethylbenzene | .1 | 0.0819 | | mg/kg | | 82 | 71 - 129 | 13 | 35 |
| m,p-Xylenes | .2 | 0.160 | | mg/kg | | 80 | 70 - 135 | 13 | 35 |
| o-Xylene | .1 | 0.0833 | | mg/kg | | 83 | 71 - 133 | 12 | 35 |
| Toluene | .1 | 0.0914 | | mg/kg | | 91 | 70 - 130 | 13 | 35 |
| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene | 101 | | 70 - 130 | | | | | | |

Lab Sample ID: 690433-009 S
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|--------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Benzene | <.002 | | .0998 | 0.139 | X | mg/kg | | 139 | 70 - 130 |
| Ethylbenzene | <.002 | | .0998 | 0.119 | | mg/kg | | 119 | 71 - 129 |
| m,p-Xylenes | <.00399 | | .2 | 0.231 | | mg/kg | | 116 | 70 - 135 |
| o-Xylene | <.002 | | .0998 | 0.125 | | mg/kg | | 125 | 71 - 133 |
| Toluene | <.002 | | .0998 | 0.131 | X | mg/kg | | 131 | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 690433-009 S
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152745_P

| Surrogate | %Recovery | MS MS Qualifier | Limits |
|----------------------|-----------|--------------------|----------|
| 4-Bromofluorobenzene | 103 | | 70 - 130 |

Lab Sample ID: 690433-009 SD
Matrix: SOIL
Analysis Batch: 3152745

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3152745_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene | <.002 | | .0998 | 0.143 | X | mg/kg | | 143 | 70 - 130 | 3 | 35 |
| Ethylbenzene | <.002 | | .0998 | 0.128 | | mg/kg | | 128 | 71 - 129 | 7 | 35 |
| m,p-Xylenes | <.00399 | | .2 | 0.250 | | mg/kg | | 125 | 70 - 135 | 8 | 35 |
| o-Xylene | <.002 | | .0998 | 0.133 | X | mg/kg | | 133 | 71 - 133 | 6 | 35 |
| Toluene | <.002 | | .0998 | 0.139 | X | mg/kg | | 139 | 70 - 130 | 6 | 35 |

| Surrogate | %Recovery | MSD MSD Qualifier | Limits |
|----------------------|-----------|----------------------|----------|
| 4-Bromofluorobenzene | 105 | | 70 - 130 |

Lab Sample ID: 7722710-1-BLK
Matrix: SOIL
Analysis Batch: 3152798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152798_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------|--------------|-----------------|------|-----|-------|---|----------------|----------------|---------|
| Benzene | <.002 | U | .002 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | 1 |
| Ethylbenzene | <.002 | U | .002 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | 1 |
| m,p-Xylenes | <.004 | U | .004 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | 1 |
| o-Xylene | <.002 | U | .002 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | 1 |
| Toluene | <.002 | U | .002 | | mg/kg | | 03/06/21 08:15 | 03/07/21 06:35 | 1 |

| Surrogate | %Recovery | BLANK BLANK Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene | 97 | | 70 - 130 | 03/06/21 08:15 | 03/07/21 06:35 | 1 |

Lab Sample ID: 7722710-1-BKS
Matrix: SOIL
Analysis Batch: 3152798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152798_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene | .1 | 0.108 | | mg/kg | | 108 | 70 - 130 |
| Ethylbenzene | .1 | 0.105 | | mg/kg | | 105 | 71 - 129 |
| m,p-Xylenes | .2 | 0.210 | | mg/kg | | 105 | 70 - 135 |
| o-Xylene | .1 | 0.107 | | mg/kg | | 107 | 71 - 133 |
| Toluene | .1 | 0.0999 | | mg/kg | | 100 | 70 - 130 |

| Surrogate | %Recovery | LCS LCS Qualifier | Limits |
|----------------------|-----------|----------------------|----------|
| 4-Bromofluorobenzene | 104 | | 70 - 130 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: BTEX 8021 - General Subcontract Method (Continued)

Lab Sample ID: 7722710-1-BSD
Matrix: SOIL
Analysis Batch: 3152798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152798_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|--------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Benzene | .1 | 0.0969 | | mg/kg | | 97 | 70 - 130 | 11 | 35 |
| Ethylbenzene | .1 | 0.0922 | | mg/kg | | 92 | 71 - 129 | 13 | 35 |
| m,p-Xylenes | .2 | 0.183 | | mg/kg | | 92 | 70 - 135 | 14 | 35 |
| o-Xylene | .1 | 0.0934 | | mg/kg | | 93 | 71 - 133 | 14 | 35 |
| Toluene | .1 | 0.0902 | | mg/kg | | 90 | 70 - 130 | 10 | 35 |

| Surrogate | %Recovery | LCS Qualifier | Limits |
|----------------------|-----------|---------------|----------|
| 4-Bromofluorobenzene | 96 | | 70 - 130 |

Method: CHLORIDE E300 - General Subcontract Method

Lab Sample ID: 7722684-1-BLK
Matrix: SOIL
Analysis Batch: 3152764

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152764_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Chloride | <5 | U | 5 | | mg/kg | | 03/06/21 14:20 | 03/06/21 14:55 | 1 |

Lab Sample ID: 7722684-1-BKS
Matrix: SOIL
Analysis Batch: 3152764

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152764_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|-------|---|------|----------|
| Chloride | 250 | 252 | | mg/kg | | 101 | 80 - 120 |

Lab Sample ID: 7722684-1-BSD
Matrix: SOIL
Analysis Batch: 3152764

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152764_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|----------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Chloride | 250 | 253 | | mg/kg | | 101 | 80 - 120 | 0 | 20 |

Lab Sample ID: 7722685-1-BLK
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Chloride | <5 | U | 5 | | mg/kg | | 03/06/21 14:30 | 03/06/21 14:27 | 1 |

Lab Sample ID: 7722685-1-BKS
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|----------|-------------|------------|---------------|-------|---|------|----------|
| Chloride | 250 | 251 | | mg/kg | | 100 | 80 - 120 |

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QC Sample Results

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Method: CHLORIDE E300 - General Subcontract Method (Continued)

Lab Sample ID: 7722685-1-BSD
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250 | 251 | | mg/kg | | 100 | 80 - 120 | 0 | 20 |

Lab Sample ID: 690433-008 S
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | 117 | | 248 | 361 | | mg/kg | | 98 | 80 - 120 |

Lab Sample ID: 690433-008 SD
Matrix: SOIL
Analysis Batch: 3152765

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3152765_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 117 | | 248 | 361 | | mg/kg | | 98 | 80 - 120 | 0 | 20 |

Method: TPH 8015_NM_MOD - General Subcontract Method

Lab Sample ID: 7722756-1-BLK
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | BLANK Result | BLANK Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | <50 | U | 50 | | mg/kg | | 03/06/21 11:00 | 03/06/21 21:13 | 1 |
| Gasoline Range Hydrocarbons (GRO) | <50 | U | 50 | | mg/kg | | 03/06/21 11:00 | 03/06/21 21:13 | 1 |
| Motor Oil Range Hydrocarbons (MRO) | <50 | U | 50 | | mg/kg | | 03/06/21 11:00 | 03/06/21 21:13 | 1 |

Lab Sample ID: 7722756-1-BKS
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (DRO) | 1000 | 977 | | mg/kg | | 98 | 70 - 135 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 1010 | | mg/kg | | 101 | 70 - 135 |

Lab Sample ID: 7722756-1-BSD
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO) | 1000 | 987 | | mg/kg | | 99 | 70 - 135 | 1 | 20 |
| Gasoline Range Hydrocarbons (GRO) | 1000 | 1030 | | mg/kg | | 103 | 70 - 135 | 2 | 20 |

Lab Sample ID: 690433-001 S
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Diesel Range Organics (DRO) | <50 | | 999 | 881 | | mg/kg | | 88 | 70 - 135 |

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
 SDG: TE012919246

Method: TPH 8015_NM_MOD - General Subcontract Method (Continued)

Lab Sample ID: 690433-001 S
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Gasoline Range Hydrocarbons (GRO) | <50 | | 999 | 914 | | mg/kg | | 91 | 70 - 135 |

Lab Sample ID: 690433-001 SD
Matrix: SOIL
Analysis Batch: 3152852

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 3152852_P

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO) | <50 | | 1000 | 886 | | mg/kg | | 89 | 70 - 135 | 1 | 20 |
| Gasoline Range Hydrocarbons (GRO) | <50 | | 1000 | 918 | | mg/kg | | 92 | 70 - 135 | 0 | 20 |

QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Subcontract

Analysis Batch: 3152745

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------|------------|
| 890-257-9 | BH05 A | Total/NA | Solid | BTEX 8021 | 3152745_P |
| 890-257-10 | BH06 A | Total/NA | Solid | BTEX 8021 | 3152745_P |
| 7722663-1-BLK | Method Blank | Total/NA | SOIL | BTEX 8021 | 3152745_P |
| 7722663-1-BKS | Lab Control Sample | Total/NA | SOIL | BTEX 8021 | 3152745_P |
| 7722663-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | BTEX 8021 | 3152745_P |
| 690433-009 S | Matrix Spike | Total/NA | SOIL | BTEX 8021 | 3152745_P |
| 690433-009 SD | Matrix Spike Duplicate | Total/NA | SOIL | BTEX 8021 | 3152745_P |

Analysis Batch: 3152764

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-2 | PH01 A | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-3 | PH02 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-4 | PH02 A | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-5 | SW45 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-6 | SW46 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 890-257-7 | PH03 | Total/NA | Solid | CHLORIDE E300 | 3152764_P |
| 7722684-1-BLK | Method Blank | Total/NA | SOIL | CHLORIDE E300 | 3152764_P |
| 7722684-1-BKS | Lab Control Sample | Total/NA | SOIL | CHLORIDE E300 | 3152764_P |
| 7722684-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | CHLORIDE E300 | 3152764_P |

Analysis Batch: 3152765

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------------|------------|
| 890-257-8 | PH03 A | Total/NA | Solid | CHLORIDE E300 | 3152765_P |
| 890-257-9 | BH05 A | Total/NA | Solid | CHLORIDE E300 | 3152765_P |
| 890-257-10 | BH06 A | Total/NA | Solid | CHLORIDE E300 | 3152765_P |
| 7722685-1-BLK | Method Blank | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |
| 7722685-1-BKS | Lab Control Sample | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |
| 7722685-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |
| 690433-008 S | Matrix Spike | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |
| 690433-008 SD | Matrix Spike Duplicate | Total/NA | SOIL | CHLORIDE E300 | 3152765_P |

Analysis Batch: 3152798

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-2 | PH01 A | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-3 | PH02 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-4 | PH02 A | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-5 | SW45 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-6 | SW46 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-7 | PH03 | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 890-257-8 | PH03 A | Total/NA | Solid | BTEX 8021 | 3152798_P |
| 7722710-1-BLK | Method Blank | Total/NA | SOIL | BTEX 8021 | 3152798_P |
| 7722710-1-BKS | Lab Control Sample | Total/NA | SOIL | BTEX 8021 | 3152798_P |
| 7722710-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | BTEX 8021 | 3152798_P |

Analysis Batch: 3152852

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | TPH | 3152852_P |
| 890-257-2 | PH01 A | Total/NA | Solid | TPH | 3152852_P |
| | | | | 8015_NM_MOD | |
| | | | | 8015_NM_MOD | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD LineJob ID: 890-257-1
SDG: TE012919246

Subcontract (Continued)

Analysis Batch: 3152852 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|--------------------|------------|
| 890-257-3 | PH02 | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-4 | PH02 A | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-5 | SW45 | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-6 | SW46 | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-7 | PH03 | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-8 | PH03 A | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-9 | BH05 A | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 890-257-10 | BH06 A | Total/NA | Solid | TPH 8015_NM_MOD | 3152852_P |
| 7722756-1-BLK | Method Blank | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |
| 7722756-1-BKS | Lab Control Sample | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |
| 7722756-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |
| 690433-001 S | Matrix Spike | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |
| 690433-001 SD | Matrix Spike Duplicate | Total/NA | SOIL | TPH 8015_NM_MOD | 3152852_P |

Prep Batch: 3152745_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------|------------|
| 890-257-9 | BH05 A | Total/NA | Solid | SW5035A | |
| 890-257-10 | BH06 A | Total/NA | Solid | SW5035A | |
| 7722663-1-BLK | Method Blank | Total/NA | SOIL | SW5035A | |
| 7722663-1-BKS | Lab Control Sample | Total/NA | SOIL | SW5035A | |
| 7722663-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | SW5035A | |
| 690433-009 S | Matrix Spike | Total/NA | SOIL | SW5035A | |
| 690433-009 SD | Matrix Spike Duplicate | Total/NA | SOIL | SW5035A | |

Prep Batch: 3152764_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | E300P | |
| 890-257-2 | PH01 A | Total/NA | Solid | E300P | |
| 890-257-3 | PH02 | Total/NA | Solid | E300P | |
| 890-257-4 | PH02 A | Total/NA | Solid | E300P | |
| 890-257-5 | SW45 | Total/NA | Solid | E300P | |
| 890-257-6 | SW46 | Total/NA | Solid | E300P | |
| 890-257-7 | PH03 | Total/NA | Solid | E300P | |
| 7722684-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722684-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722684-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |

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QC Association Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Subcontract

Prep Batch: 3152765_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-257-8 | PH03 A | Total/NA | Solid | E300P | |
| 890-257-9 | BH05 A | Total/NA | Solid | E300P | |
| 890-257-10 | BH06 A | Total/NA | Solid | E300P | |
| 7722685-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722685-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722685-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 690433-008 S | Matrix Spike | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 690433-008 SD | Matrix Spike Duplicate | Total/NA | SOIL | ***DEFAULT PREP*** | |

Prep Batch: 3152798_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|---------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | SW5035A | |
| 890-257-2 | PH01 A | Total/NA | Solid | SW5035A | |
| 890-257-3 | PH02 | Total/NA | Solid | SW5035A | |
| 890-257-4 | PH02 A | Total/NA | Solid | SW5035A | |
| 890-257-5 | SW45 | Total/NA | Solid | SW5035A | |
| 890-257-6 | SW46 | Total/NA | Solid | SW5035A | |
| 890-257-7 | PH03 | Total/NA | Solid | SW5035A | |
| 890-257-8 | PH03 A | Total/NA | Solid | SW5035A | |
| 7722710-1-BLK | Method Blank | Total/NA | SOIL | SW5035A | |
| 7722710-1-BKS | Lab Control Sample | Total/NA | SOIL | SW5035A | |
| 7722710-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | SW5035A | |

Prep Batch: 3152852_P

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-257-1 | PH01 | Total/NA | Solid | SW8015P | |
| 890-257-2 | PH01 A | Total/NA | Solid | SW8015P | |
| 890-257-3 | PH02 | Total/NA | Solid | SW8015P | |
| 890-257-4 | PH02 A | Total/NA | Solid | SW8015P | |
| 890-257-5 | SW45 | Total/NA | Solid | SW8015P | |
| 890-257-6 | SW46 | Total/NA | Solid | SW8015P | |
| 890-257-7 | PH03 | Total/NA | Solid | SW8015P | |
| 890-257-8 | PH03 A | Total/NA | Solid | SW8015P | |
| 890-257-9 | BH05 A | Total/NA | Solid | SW8015P | |
| 890-257-10 | BH06 A | Total/NA | Solid | SW8015P | |
| 7722756-1-BLK | Method Blank | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722756-1-BKS | Lab Control Sample | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 7722756-1-BSD | Lab Control Sample Dup | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 690433-001 S | Matrix Spike | Total/NA | SOIL | ***DEFAULT PREP*** | |
| 690433-001 SD | Matrix Spike Duplicate | Total/NA | SOIL | ***DEFAULT PREP*** | |

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Client Sample ID: PH01

Lab Sample ID: 890-257-1

Date Collected: 03/04/21 08:45

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152798_P | 03/06/21 08:15 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152798 | 03/07/21 12:03 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152764_P | 03/06/21 14:20 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152764 | 03/06/21 16:51 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/06/21 22:17 | ARM | XM |

Client Sample ID: PH01 A

Lab Sample ID: 890-257-2

Date Collected: 03/04/21 09:00

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152798_P | 03/06/21 08:15 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152798 | 03/07/21 12:23 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152764_P | 03/06/21 14:20 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152764 | 03/06/21 16:57 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/06/21 23:20 | ARM | XM |

Client Sample ID: PH02

Lab Sample ID: 890-257-3

Date Collected: 03/04/21 09:10

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152798_P | 03/06/21 08:15 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152798 | 03/07/21 12:44 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152764_P | 03/06/21 14:20 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152764 | 03/06/21 17:14 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/06/21 23:41 | ARM | XM |

Client Sample ID: PH02 A

Lab Sample ID: 890-257-4

Date Collected: 03/04/21 09:25

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152798_P | 03/06/21 08:15 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152798 | 03/07/21 13:04 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152764_P | 03/06/21 14:20 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152764 | 03/06/21 17:20 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/07/21 00:02 | ARM | XM |

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Client Sample ID: SW45

Lab Sample ID: 890-257-5

Date Collected: 03/04/21 09:40

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152798_P | 03/06/21 08:15 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152798 | 03/07/21 13:24 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152764_P | 03/06/21 14:20 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152764 | 03/06/21 17:26 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/07/21 00:22 | ARM | XM |

Client Sample ID: SW46

Lab Sample ID: 890-257-6

Date Collected: 03/04/21 11:15

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152798_P | 03/06/21 08:15 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152798 | 03/07/21 13:45 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152764_P | 03/06/21 14:20 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152764 | 03/06/21 17:31 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/07/21 00:43 | ARM | XM |

Client Sample ID: PH03

Lab Sample ID: 890-257-7

Date Collected: 03/04/21 10:15

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152798_P | 03/06/21 08:15 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152798 | 03/07/21 14:05 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152764_P | 03/06/21 14:20 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152764 | 03/06/21 17:37 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/07/21 01:04 | ARM | XM |

Client Sample ID: PH03 A

Lab Sample ID: 890-257-8

Date Collected: 03/04/21 10:30

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152798_P | 03/06/21 08:15 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152798 | 03/07/21 14:26 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152765_P | 03/06/21 14:30 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152765 | 03/06/21 14:42 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/07/21 01:25 | ARM | XM |

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Client Sample ID: BH05 A

Lab Sample ID: 890-257-9

Date Collected: 03/04/21 10:05

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152745_P | 03/05/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152745 | 03/05/21 21:28 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152765_P | 03/06/21 14:30 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152765 | 03/06/21 14:57 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/07/21 01:46 | ARM | XM |

Client Sample ID: BH06 A

Lab Sample ID: 890-257-10

Date Collected: 03/04/21 10:40

Matrix: Solid

Date Received: 03/04/21 13:18

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|-----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA | Prep | SW5035A | | 1 | 3152745_P | 03/05/21 16:30 | | XM |
| Total/NA | Analysis | BTEX 8021 | | 1 | 3152745 | 03/05/21 21:48 | KTL | XM |
| Total/NA | Prep | E300P | | 1 | 3152765_P | 03/06/21 14:30 | | XM |
| Total/NA | Analysis | CHLORIDE E300 | | 1 | 3152765 | 03/06/21 15:02 | SPC | XM |
| Total/NA | Prep | SW8015P | | 1 | 3152852_P | 03/06/21 11:00 | | XM |
| Total/NA | Analysis | TPH 8015_NM_MOD | | 1 | 3152852 | 03/07/21 02:07 | ARM | XM |

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas | NELAP | T104704400-20-21 | 06-30-21 |

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Method Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

| Method | Method Description | Protocol | Laboratory |
|-------------|--------------------|----------|------------|
| Subcontract | BTEX 8021 | None | XM |
| Subcontract | CHLORIDE E300 | None | XM |
| Subcontract | TPH 8015_NM_MOD | None | XM |

Protocol References:

None = None

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.
Project/Site: PLU 89 SWD Line

Job ID: 890-257-1
SDG: TE012919246

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 890-257-1 | PH01 | Solid | 03/04/21 08:45 | 03/04/21 13:18 | |
| 890-257-2 | PH01 A | Solid | 03/04/21 09:00 | 03/04/21 13:18 | |
| 890-257-3 | PH02 | Solid | 03/04/21 09:10 | 03/04/21 13:18 | |
| 890-257-4 | PH02 A | Solid | 03/04/21 09:25 | 03/04/21 13:18 | |
| 890-257-5 | SW45 | Solid | 03/04/21 09:40 | 03/04/21 13:18 | |
| 890-257-6 | SW46 | Solid | 03/04/21 11:15 | 03/04/21 13:18 | |
| 890-257-7 | PH03 | Solid | 03/04/21 10:15 | 03/04/21 13:18 | |
| 890-257-8 | PH03 A | Solid | 03/04/21 10:30 | 03/04/21 13:18 | |
| 890-257-9 | BH05 A | Solid | 03/04/21 10:05 | 03/04/21 13:18 | |
| 890-257-10 | BH06 A | Solid | 03/04/21 10:40 | 03/04/21 13:18 | |

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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: _____

www.xenco.com

Page 1 of 1

| | | | |
|------------------|-----------------------------|-------------------------|--|
| Project Manager: | Dan Moir | Bill to: (if different) | Kyle Littlell |
| Company Name: | WSP USA Inc, Permian office | Company Name: | XTO Energy |
| Address: | 3300 North A Street | Address: | 522 West Mermond |
| City, State ZIP: | Midland, TX 79705 | City, State ZIP: | Carlsbad, NM 88220 |
| Phone: | (432) 236-3849 | Email: | elizabeth.naka@wsp.com, dan.moir@wsp.com |

| | | | |
|-----------------|---------------------|-------------|-------------------------------------|
| Project Name: | PLU 89 SW D Line | Turn Around | |
| Project Number: | FEEDSTOCKS TOWER 24 | Rush: | <input checked="" type="checkbox"/> |
| P.O. Number: | Eddy County | Due Date: | |
| Sampler's Name: | Elizabeth Naka | | |

| | | | |
|-----------------------|---|--------------------|----------|
| Temperature (°C): | 1.8/1.6 | Thermometer ID | |
| Received Inact: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Correction Factor: | 1-NM-087 |
| Cooler Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Total Containers: | 10 |
| Sample Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | |

| Number of Containers | |
|----------------------|---|
| TPH (EPA 8015) | X |
| BTEX (EPA 0-8021) | X |
| Chloride (EPA 300.0) | X |

| | | |
|---|--|------------------|
| ANALYSIS REQUEST | | Work Order Notes |
| Program: <input type="checkbox"/> RP <input type="checkbox"/> Throwfields <input type="checkbox"/> RC <input type="checkbox"/> perfund | | |
| State of Project: | | |
| Reporting Level: <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PT/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV | | |
| Deliverables: <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: | | |



890-257 Chain of Custody

TAT starts the day received by the lab, if received by 4:30pm

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Number of Containers | TPH (EPA 8015) | BTEX (EPA 0-8021) | Chloride (EPA 300.0) | Sample Comments |
|-----------------------|--------|--------------|--------------|-------|----------------------|----------------|-------------------|----------------------|-----------------|
| PH01 | S | 3/14/21 | 0845 | 1' | 1 | X | X | X | discart |
| PH01A | | | 0900 | 4' | | | | | |
| PH02 | | | 0910 | 1' | | | | | |
| PH02A | | | 0925 | 4' | | | | | |
| SW44 | | | 0940 | 0'-4' | | | | | completes |
| SW45 | | | 1155 | 0'-4' | | | | | completes |
| PH03 | | | 1015 | 1' | | | | | discart |
| PH03A | | | 1030 | 4' | | | | | |
| PH05A | | | 1055 | 4' | | | | | |
| PH06A | | | 1040 | 4' | | | | | |

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO2 Na Sr Ti Sn U V Zn

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

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. 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 Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

| | | | | | |
|------------------------------|--------------------------|-------------|------------------------------|--------------------------|-----------|
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
| <i>[Signature]</i> | <i>[Signature]</i> | 3.4.21 1317 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-257-1
SDG Number: TE012919246

Login Number: 257
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

| Question | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | 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

NMOCD Correspondence

From: [Green, Garrett J](#)
To: ocd.enviro@state.nm.us; [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Cc: [Tacoma Morrissey](#); [Kalei Jennings](#); [DelawareSpills /SM](#)
Subject: XTO - Sampling Notification (Week of 8/1/22 - 8/5/22)
Date: Friday, July 29, 2022 4:11:00 PM

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of August 1, 2022.

Monday

- PLU C1 Frac Pond / NAPP2207743395
- BEU Connector PW Booster / nAPP2213151424

Tuesday

- BEU Connector PW Booster / nAPP2213151424
- Goldenchild CTB / nAPP2035256230, nAPP2102237559, nAPP2101335437, & nAPP2101331137

Wednesday

- BEU Connector PW Booster / nAPP2213151424
- Ross Draw 25 NW Battery / NAPP2201444794

Thursday

- PLU 89 / NRM1932350962

Thank you,

Garrett Green

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729



XTO - Sampling Notification (Week of 11/14/22 - 11/18/22)

From Green, Garrett J <garrett.green@exxonmobil.com>

Date Thu 11/10/2022 6:40 PM

To ocd.enviro@emnrd.nm.gov <ocd.enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>

Cc DelawareSpills /SM <DelawareSpills@exxonmobil.com>; Tacoma Morrissey <tmorrissey@ensolum.com>

[**EXTERNAL EMAIL**]

All,

XTO plans to complete final sampling activities at the following sites the week of Nov 14, 2022.

Monday

- BEU DI 30 Battery/ NAPP2200746777

Tuesday

- BEU DI 30 Battery/ NAPP2200746777
- PLU 89 / NRM1932350962

Wednesday

- BEU DI 30 Battery/ NAPP2200746777
- PLU 89 / NRM1932350962

Thursday

- PLU 293 Flow Line/ NAPP2126045826
- Big Sinks 2-24-30 Battery/ NAB1913729531

Friday

- Big Sinks 2-24-30 Battery/ NAB1913729531

Thank you,

Garrett Green

Environmental Coordinator

Delaware Business Unit

(575) 200-0729

Garrett.Green@ExxonMobil.com

XTO Energy, Inc.

3104 E. Greene Street | Carlsbad, NM 88220 | M: (575)200-0729

Hamlet, Robert, EMNRD

From: Hamlet, Robert, EMNRD
Sent: Friday, April 17, 2020 9:51 AM
To: 'Littrell, Kyle'
Cc: Bratcher, Mike, EMNRD; Venegas, Victoria, EMNRD; Eads, Cristina, EMNRD; blm_nm_cfo_spill@blm.gov
Subject: Closure Denied - XTO - Poker Lake Unit 89 - (incident #NRM1932350962) (2RP-5704)
Attachments: Closure Denied - XTO - Poker Lake Unit 89.pdf

Kyle,

We have received your closure report and final C-141 for **Incident #NRM1932350962** Poker Lake Unit 89, thank you. This closure is denied.

- Sidewall samples SW01, SW02, SW03, SW04, and SW05 are in the pasture and need to be delineated and excavated to 600 mg/kg for chlorides from 0'-4' below ground surface. Right of Ways and Roads are considered off Active Well Pad.
- Please include a signed/dated form C-141 Page 6 Closure Page.

Please let me know if you have any further questions.

Thank you,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 748-1283
Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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 547197

QUESTIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 547197 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|----------------------|-------------------------------------|
| Prerequisites | |
| Incident ID (n#) | nRM1932350962 |
| Incident Name | NRM1932350962 PLU 89 @ 30-015-27787 |
| Incident Type | Release Other |
| Incident Status | Remediation Closure Report Received |
| Incident Well | [30-015-27787] POKER LAKE UNIT #089 |

| | |
|---|------------|
| Location of Release Source | |
| <i>Please answer all the questions in this group.</i> | |
| Site Name | PLU 89 |
| Date Release Discovered | 10/08/2019 |
| Surface Owner | Federal |

| | |
|--|---------------|
| 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: Human Error Pipeline (Any) Crude Oil Released: 7 BBL Recovered: 7 BBL Lost: 0 BBL. |
| Produced Water Released (bbls) Details | Cause: Human Error Pipeline (Any) Produced Water Released: 1,401 BBL Recovered: 1,313 BBL Lost: 88 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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<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 547197

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 547197 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| | |
|---|--|
| Nature and Volume of Release (continued) | |
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | Yes |
| Reasons why this would be considered a submission for a notification of a major release | From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. |

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

| | |
|--|---------------|
| The source of the release has been stopped | True |
| The impacted area has been secured to protect human health and the environment | True |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True |
| All free liquids and recoverable materials have been removed and managed appropriately | True |
| If all the actions described above have not been undertaken, explain why | Not answered. |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Richard Kotzur Title: Senior Project Manager Email: NMEEnvNotifications@exxonmobil.com Date: 01/27/2026 |
|--|--|

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 3

Action 547197

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 547197 |
| | 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 1 and 5 (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 ½ and 1 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 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 1 and 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Greater than 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Low |
| A 100-year floodplain | Between 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) | 9390 |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 115 |
| GRO+DRO (EPA SW-846 Method 8015M) | 115 |
| 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 | 10/09/2019 |
| On what date will (or did) the final sampling or liner inspection occur | 11/18/2022 |
| On what date will (or was) the remediation complete(d) | 11/18/2022 |
| What is the estimated surface area (in square feet) that will be reclaimed | 1500 |
| What is the estimated volume (in cubic yards) that will be reclaimed | 222 |
| What is the estimated surface area (in square feet) that will be remediated | 1500 |
| What is the estimated volume (in cubic yards) that will be remediated | 222 |

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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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 547197

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 547197 |
| | 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 | Not answered. |
| OR is the off-site disposal site, to be used, an NMED facility | Not answered. |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) | Not answered. |
| (In Situ) Soil Vapor Extraction | Not answered. |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | Not answered. |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | Not answered. |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | Not answered. |
| Ground Water Abatement pursuant to 19.15.30 NMAC | Not answered. |
| OTHER (Non-listed remedial process) | Not answered. |

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: 01/27/2026 |
|--|---|

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 547197

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 547197 |
| | 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 547197

QUESTIONS (continued)

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 547197 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Sampling Event Information | |
|---|-------------------|
| Last sampling notification (C-141N) recorded | 547176 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 02/22/2021 |
| What was the (estimated) number of samples that were to be gathered | 18 |
| What was the sampling surface area in square feet | 3527 |

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 | 3527 |
| What was the total volume (cubic yards) remediated | 522 |
| 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 | 3527 |
| What was the total volume (in cubic yards) reclaimed | 522 |
| Summarize any additional remediation activities not included by answers (above) | Additional soil sampling activities and excavation were conducted at the Site to address the October 8, 2019, produced water and oil release. Laboratory analytical results from all samples collected from the final release extent and release area, indicated that all COC concentrations were in compliance with the Reclamation and Closure Criteria. Based on laboratory analytical results, impacted soil exceeding the Site Reclamation and Closure Criteria has been excavated and no further remediation is required at this time. The excavation was backfilled with material purchased locally and the surface recontoured to match pre-existing Site conditions. Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater is confirmed to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. XTO believes these remedial actions are protective of human health, the environment, and groundwater. |

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: NMEEnvNotifications@exxonmobil.com Date: 01/27/2026 |
|--|--|

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QUESTIONS, Page 7

Action 547197

QUESTIONS (continued)

| | |
|---|---|
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| | Action Number: 547197 |
| | 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 547197

CONDITIONS

| | |
|---|---|
| Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707 | OGRID: 5380 |
| | Action Number: 547197 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| rhamlet | We have received your Remediation Closure Report for Incident #nRM1932350962 PLU 89, thank you. This Remediation Closure Report is approved. | 2/6/2026 |